

America's Choice for Quality Rubber Since 1910™

**WARCO®**



# Rubber Products Catalog

Catalog Effective: March 2024

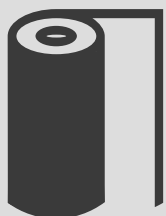
The

# BENCHMARK

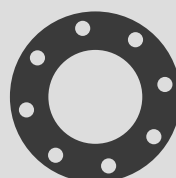
## For Engineered Custom Rubber



Mixing



Sheet



Molded



Extruded

In House Mixing | Full Service R&D Lab | 7,000+ Compounds | 114+ Years of Experience

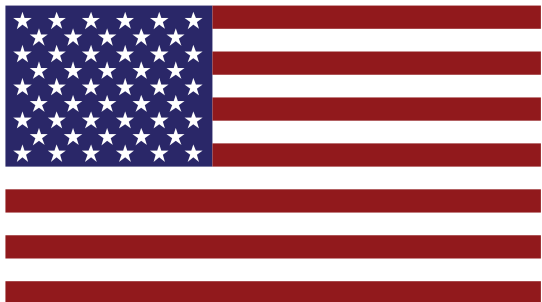
Discover the unparalleled level of flexibility of a truly complete rubber manufacturer. We design compounds, test, mix and form the major three types of rubber products within a single facility.

Access the expertise and experience of over a century's worth of designing rubber that exceed the standards of thousands of unique & challenging applications.



visit us at [warco.com](http://warco.com)

**WARCO®**



**America's choice for quality rubber.™**

★ Proudly manufactured in the USA since 1910. ★

**WARCO®**

**West American Rubber Company, LLC**

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 750 North Main Street  
 Orange, California 92868

# Rubber Products Catalog

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# West American Rubber Company

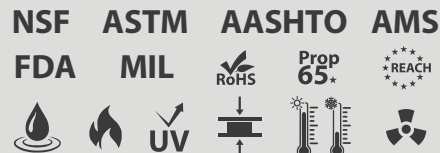
America's Choice For Sheet, Molded, and Extruded Rubber Products

WARCO is an ISO 9001 certified, fully vertically integrated, American manufacturer of organic & silicone rubber, with over 114 years of supplying quality custom sheet, molded, & extruded rubber products. Whether a standard or custom solution is needed, WARCO is America's Choice.



## Research & Development

Our team of chemists and engineers are skilled at developing rubber formulations to meet virtually any of your specifications & required physical properties.



## In House Mixing

Our on-site laboratory works closely with our in-house mixing team to compound the material needed to meet your requirements & application. We thoroughly inspect and qualify our raw materials to ensure that our parts meet the WARCO standard of quality.



## 3 Forms of Rubber Products

Over 114 years of rubber manufacturing expertise.

**Sheet Rubber**  
Standard & Custom, Thick & Thin

**Molded Rubber**  
Simple & Complex, Large & Small

**Extruded & Spliced Rubber**  
Broad & Narrow, Short & Long



## Custom Services

As a premier custom rubber manufacturer, WARCO provides a wide variety of services to enhance your parts.

- Color Matching
- Specialty Material Processing
- Metal & Fabric Bonding
- Reinforced-Cloth Inserts (CI)
- Various Surface Finishes
- Branding & Stenciling
- Tool Design Support
- and much more



## Your Finished Parts

We supply custom quality parts to a vast array of American markets & applications. Learn more at [warco.com/industries](http://warco.com/industries)



visit us at [warco.com](http://warco.com)



# General Product Information

Our unique combination of equipment and talent allows WARCO to be thoroughly proficient in Large Volume, Short Run and Custom Rubber. Please contact our sales department for quotations on volume in excess of 1,000 lbs or on any Sheet, Extrusion, or Molded Rubber products not featured in our catalog. Additionally, we would be pleased to quote you on any custom molding, extrusion, or sheet, products made to your requirements and specification.

For quotes, please contact customer service:

Toll Free: 800-245-8748 | Tel: 714-532-3355 | Email: sales@warco.com

**Pricing:** Sheet Rubber products are priced per foot (\$/FT). Molded Rubber Sheets and Molded Bearing Pads are priced per each (\$/EA). Extrusion is priced per foot (\$/FT) or per 100 feet (\$/CFT). Please call us for a quote.

**Minimum Purchase:**

- Regularly Stocked Sheet Item: 1 Roll
- Non-Regularly Stocked Item: See Product for details or call us at 1-800-254-8748 for quote
- Custom & Non-Catalog items: Please call for quote

**Width Tolerance:** Sheet Rubber comes trimmed or untrimmed. Trimmed Sheet Rubber is provided either 36", 48", or 55" wide ± 1" Untrimmed Sheet Rubber is provided either 36" usable, 48" usable, or 55" usable and can measure approximately 3" in additional width. Custom widths are available, please call for details.

**Sheet Rubber Finish:** Unless otherwise noted, sheet rubber has a standard smooth finish. Textured (fabric) finish and matte finish are available on most materials at an additional cost. Please call for details.

**Rubber Color:** Unless otherwise noted, the standard color of our rubber is Black. Custom colors and color matching are available. Please call for details.

**Test Reports:** Short form test results, basic physicals, are available. Full test reports to particular specifications will be quoted on request. Certifications are sent with your order upon request at no charge.

**Physical Properties:** The minimum physical properties in this price list are obtained on ASTM test slabs and buttons.

Unless stated otherwise, products are manufactured to meet standard RMA Commercial guidelines. Per RMA, roll goods may contain multiple pieces.

**ASTM and Product Physical Values:** ASTM basic requirements for physical properties are based on values obtained from standard laboratory test specimens prepared and tested in accordance with the applicable ASTM test methods. Test results from specimens prepared from finished products may not duplicate values obtained from standard test specimens. Per ASTM D 2000, Section 7.1, Buyer agrees that when standard test specimens are cut from finished parts in accordance with Practice D 3183, a deviation to the extent of 10% on tensile strength and elongation values is permissible.

**Payment Terms:** Net 30 days. No Cash Discounts. New customer orders for shipment on open account are subject to credit approval.

**Freight Terms:** F.O.B. our warehouse location.

Please call or visit [warco.com](http://warco.com) for a quote.

**Sheet Rubber Roll Length:**

Standard Roll approximate length ±10%

- 1/64" thick - 180 FT
- 1/32" thick - 150 FT
- 1/16" thick - 100 FT
- 3/32" thick - 65 FT
- 1/8" thick - 50 FT
- 3/16" thick - 30 FT
- 1/4" thick - 25 FT
- 5/16" thick - 20 FT
- 3/8" thick - 16.5 FT
- 1/2" thick - 12.5 FT

Molded Sheets available up to 4" x 48" x 48"

Products may vary, please see product listing for specific roll lengths. Per RMA, roll goods may contain multiple pieces.

**Sheet Rubber Thickness Tolerance:**

(Standard RMA)

- .031" and thinner ± .010"
- .032" to .061" ± .012"
- .062" to .124" ± .016"
- .125" to .186" ± .020"
- .187" to .374" ± .031"
- .375" to .500" ± .047"
- .501" to .750" ± .094"
- .751" and thicker ± 10%

Closer tolerances and custom thicknesses are available & can be quoted on request:

Tel: 714-532-3355  
Toll-Free: 800-245-8748

**Special Services and Options are Available:**

- Custom Formulations
- Sheet Rubber Slitting
- Fabric, Smooth & Paper Finish
- Talc Free
- Stencilling
- Color Matching
- Tight Tolerances
- Custom Widths, Thicknesses and Lengths

Please call for details:  
Tel: 714-532-3355  
Toll-Free: 800-245-8748

All options may not be available on all products

**Fraction to Decimal to Millimeter Conversion:**

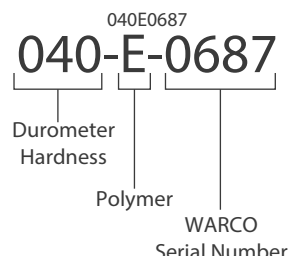
1/64"	0.016"	0.397 mm
1/32"	0.031"	0.793 mm
1/16"	0.062"	1.588 mm
3/32"	0.093"	2.381 mm
1/8"	0.125"	3.175 mm
3/16"	0.187"	4.763 mm
1/4"	0.25"	6.35 mm
5/16"	0.312"	7.938 mm
3/8"	0.375"	9.525 mm
1/2"	0.5"	12.7 mm
5/8"	0.625"	15.875 mm
3/4"	0.75"	19.05 mm
7/8"	0.875"	22.225 mm
1"	1.0"	25.4 mm

**Interpreting Our Compound Number**

Our compound numbers are crafted to easily organize our cataloged formulations & quickly identify the durometer and polymer

**Polymer Key**

- E Neoprene
- P Nitrile (NBR/Buna-N/B-Buna)
- A SBR
- K EPDM
- F Fluorozone or Viton (FKM/Fluoroelastomer)
- T Butyl
- S Silicone
- R Natural Rubber
- D Epichlorohydrin
- H Hypalon
- M TPR



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## Specification Index

With a full laboratory and 7,000+ rubber compounds, WARCO is proficient at designing formulations to meet some of the world's most stringent specifications. In addition to the specifications listed below, WARCO's technical and development team is available to assist you with your specific requirements.

Please contact us for more information:

Tel: 714-532-3355 Toll-Free: 800-245-8748 Email: [sales@warco.com](mailto:sales@warco.com)

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## In Need of a Spec Not Listed Here?







WARCO has the knowledge, talent and expertise to formulate rubber compounds to meet some of the world's most stringent specifications. **Contact us below** to learn how WARCO's technical and development team can help you meet your specification:

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# NEOPRENE'S PROPERTIES







## ENVIRONMENTAL

	Chemical Resistance	Very Good
	Oil Resistance	Good
	Weather Resistance	Good
	Ozone Resistance	Good
	Oxidization Resistance	Good
	Sunlight Resistance	Very Good

## MECHANICAL

	Compression Set	Good
	Abrasion Resistance	Excellent
	Impact Resistance	Excellent
	Rebound Rating	Very Good
	Tear Resistance	Good
	Flex Cracking Resistance	Very Good

## APPLICATION SPECIFIC

	Flame Resistance	Excellent
	Minimum Service Temperature	Good
	Maximum Service Temperature	Fair
	Gas Permeability	Good
	Radiation Resistance	Good
	Steam Resistance	Good

 **PROUDLY MADE IN THE USA**

# NEOPRENE

- Outstanding Ozone & Sunlight Resistance
- Excellent Adhesion to Fabrics & Metals
- Superior Resistance to Alkalis & Acids

## 20 Durometer Neoprene Molded Slabs

20 Durometer Neoprene Molded Slabs are excellent in applications related to the oil industry as it exhibits a high level of resistance to oil. Available in 36" x 36" and 48" x 48", longer lengths are available upon request.

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Features
20 020E0241	1/8 - 1	36x36 48x48	500	550	-30°F to +200°F	2.2 lb	100% Neoprene Base

## AASHTO Unsupported Calendered Neoprene Bearing Pads

Also available in 36" x 36" and 48" x 48" slabs.

Thickness Tolerance: 1.25" thick or less = +0.125"/-0 Width Tolerance: 36" width = +0.25"/-0, 48" width = +0.5"/-0

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
50 050E0052	1/8 thru 1/2	36, 48	2250	400	-40°F to +220°F	2.54 lb	AASHTO Grade 3 Neoprene
60 060E0054	1/8 thru 1/2	36, 48	2250	350	-40°F to +220°F	2.56 lb	AASHTO Grade 3 Neoprene
70 070E0056	1/8 thru 1/2	36, 48	2250	300	-40°F to +220°F	2.60 lb	AASHTO Grade 2 Neoprene

Certain states specify requirements other than standard AASHTO specifications. When ordering, identify all requirements or submit individual state specifications. Above meets the Standard Specifications for Highway Bridges, adopted by the American Association of State Highway and Transportation Officials, Sixteenth Edition 1993, Section M251-92, Level 1.

\*Other AASHTO grades are available. Please contact customer service for details.

## AASHTO Unsupported Molded Neoprene Bearing Pads

Also available in 36" and 48" width rolls.

Thickness Tolerance: 1.25" thick or less = +0.125"/-0 Width Tolerance: 36" width = +0.25"/-0, 48" width = +0.5"/-0

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Linear Foot (1/2" x 36")	Specification
50 050E0979	1/4 thru 1	36x36 48x48	2700	480	-40°F to +220°F	10.15 lb	AASHTO Grade 3 Neoprene
60 060E0986	1/4 thru 1	36x36 48x48	2250	350	-40°F to +220°F	10.31 lb	AASHTO Grade 3 Neoprene
70 070E0869	1/4 thru 1	36x36 48x48	2250	300	-40°F to +220°F	10.39 lb	AASHTO Grade 2 Neoprene

Certain states specify requirements other than standard AASHTO specifications. When ordering, identify all requirements or submit individual state specifications. Above meets the Standard Specifications for Highway Bridges, adopted by the American Association of State Highway and Transportation Officials, Sixteenth Edition 1993, Section M251-92, Level 1.

\*Other AASHTO grades are available. Please contact customer service for details.

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## AMS 3205 Low Temperature Neoprene

Neoprene Aerospace Material Specification (AMS) 3205 Low Temperature is designed specifically to meet the SAE AMS 3205 specification, this 50 durometer chloroprene (CR) sheet product features low temperature resilience to -40° F. Made in the USA.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
50 050E0785	1/64 thru 1/4	36, 48	1600	400	-40°F to +220°F	2.53 lb	AMS 3205 Low Temperature (Neoprene)

## AMS 3208 Weather Resistant Neoprene

Neoprene Aerospace Material Specification (AMS) 3208 Weather Resistant is optimized for superior resistance to weather exposure meeting the SAE AMS 3208 specification requirements. Made in the USA.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
50 050E0705	1/64 thru 1/4	36, 48	1200	300	-30°F to +220°F	2.51 lb	AMS 3208 Low Temperature (Neoprene)

## Anti-Microbial Neoprene

This specially formulated sheet product line prevents the growth of bacteria, fungi, and yeasts while avoiding obstacles that organic biocides have posed in the past. This product can alleviate cleaning challenges in food-processing, medical, industrial, and other applications prone to microbial growth.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40** 040E0737	1/32 thru 1/4	36	1015	400	-50°F to +220°F	2.44 lb	ASTM D 2000 M2BC 407 A14 B14 C12 F17 Z1*
50** 050E0970	1/32 thru 1/4	36	1450	350	-40°F to +220°F	2.98 lb	ASTM D 2000 M2BC 510 A14 B14 C12 F17 Z1*
60 060E0969	1/32 thru 1/4	36	1450	350	-30°F to +220°F	2.98 lb	ASTM D 2000 M2BC 610 A14 B14 C12 F17 Z1*

\*Z1=Fungus resistance per MIL STD 810, Method 508

\*\*This material is also available with MIL-R-6855 Class 2 (Grade 40 & Grade 50), MIL STD 810E Method 508.4 specification. Please contact Customer Service for a quote.

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## ASTM D2000 M2BC (Neoprene)

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040E0687	1/64 thru 1/4	36, 48	1600	550	-50°F to +200°F	2.45 lb	ASTM D2000 M2BC 410 A14 B14 C12 E034 F17
50 050E0218	1/64 thru 1/4	36, 48	1850	430	-60°F to +200°F	2.53 lb	ASTM D2000 M2BC 510 A14 B14 C12 E034 F17
60 060E0700	1/64 thru 1/4	36, 48	1900	350	-50°F to +200°F	2.69 lb	ASTM D2000 M2BC 610 A14 B14 C12 E034 F17
70 070E0722	1/64 thru 1/4	36, 48	2000	270	-60°F to +200°F	2.67 lb	ASTM D2000 M2BC 710 A14 B14 C12 E034 F17

## Commercial Neoprene - 1300 Series

A cost effective general purpose material, intended to be used in less critical applications.

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")
40 040E0203	1/32 thru 1/4	36, 48	700	350	-30°F to +200°F	2.11 lb
50 050E0213	1/32 thru 1/2	36, 48	750	350	-30°F to +200°F	2.13 lb
60 060E0235	1/32 thru 1/2	36, 48	1000	250	-30°F to +200°F	2.42 lb
70 070E0238	1/32 thru 1/2	36, 48	1000	200	-30°F to +200°F	2.46 lb
80 080E0572	1/32 thru 1/4	36, 48	1000	150	-30°F to +200°F	2.38 lb

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## FDA Neoprene

This off-white Neoprene material contains FDA approved ingredients per 21 CFR 177.2600, an FDA regulation dealing with rubber articles articles intended for repeated food exposure.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040E1058	1/32 thru 1/4	36, 48	800	650	-30°F to +220°F	2.65 lb	FDA Approved Ingredients per 21 CFR 177.2600
55 055E1053	1/32 thru 1/4	36, 48	1400	500	-30°F to +220°F	2.98 lb	FDA Approved Ingredients per 21 CFR 177.2600
60 060E1062	1/32 thru 1/4	36, 48	1400	450	-30°F to +220°F	2.98 lb	FDA Approved Ingredients per 21 CFR 177.2600

## Low Smoke, Low Flame, Low Toxicity Neoprene

Another example of the extensive capabilities of our laboratory. WARCO fire retardant elastomers offer significant benefits for gasketing and noise control inside railcars. The unique formulations of our highly engineered elastomers allow to safely resist the distribution of flame while emitting very low amounts of toxic smoke. This material is designed and formulated to meet the mass transit industry's most demanding requirements and specifications for smoke generation (ASTM E 662), flame propagation (ASTM C 542), and toxic fume production (SMP 800-C). Rail transit, truck, bus or automotive, WARCO has the material to meet your requirements.

Finish: **Nylon** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
65 065E1344	1/32 thru 1/4	1200	300	-30°F to +220°F	2.98 lb	ASTM E 662, ASTM C 542 (ASTM C 1166 Procedure), Bombardier SMP 800-C*, Boeing BSS 7239, UL 94VO**

\*Certified by Bodycote Materials Testing Canada, Inc.

\*\*This material meets the flame requirement for UL 94VO, but is not UL listed.

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## MIL-R-6855 Class 2 / MIL-PRF-6855 Class 2 (A & B) - Oil Resistant Neoprene

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
30 030E0811	1/8 thru 4 (slabs only)	36 x 36 48 x 48	1300	550	-67°F to +220°F	2.36 lb	MIL-R-6855 Class 2, Grade 30, Type A&B
40 040E0687	1/64 thru 1/4	36, 48	1300	500	-67°F to +220°F	2.45 lb	MIL-R-6855 Class 2, Grade 40, Type A&B
50 050E0785	1/64 thru 1/4	36, 48	1500	350	-50°F to +220°F	2.53 lb	MIL-R-6855 Class 2, Grade 50, Type A&B
60 060E0700	1/64 thru 1/4	36, 48	1500	300	-50°F to +220°F	2.69 lb	MIL-R-6855 Class 2, Grade 60, Type A&B
70 070E0711	1/64 thru 1/4	36, 48	1600	200	-67°F to +220°F	2.67 lb	MIL-R-6855 Class 2, Grade 70, Type A&B
80 080E0702	1/64 thru 1/4	36, 48	1650	160	-67°F to +220°F	2.78 lb	MIL-R-6855 Class 2, Grade 80, Type A&B

## MIL-R-3065 SC / ASTM D2000 (Neoprene)

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
30 030E0693	1/32 thru 1/4	36, 48	1000	400	-60°F to +220°F	2.39 lb	MIL-R-3065 SC 310 F2
40 040E0726	1/64 thru 1/4	36, 48	1500	500	-60°F to +220°F	2.47 lb	MIL-R-3065 SC 410 F2
50 050E0727	1/64 thru 1/4	36, 48	1500	420	-60°F to +220°F	2.61 lb	MIL-R-3065 SC 515 F2
60 060E0724	1/64 thru 1/4	36, 48	1500	300	-60°F to +220°F	2.65 lb	MIL-R-3065 SC 615 F2
70 070E0722	1/64 thru 1/4	36, 48	1500	250	-60°F to +220°F	2.61 lb	MIL-R-3065 SC 715 F2
80 080E0701	1/64 thru 1/4	36, 48	1500	100	-60°F to +220°F	2.61 lb	MIL-R-3065 SC 815 F2

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## Neoprene - 5100 Series

A premium grade blended sheet for applications requiring a higher percentage of Neoprene and wider temperature range than standard commercial grade. This Neoprene formula has great resistance to weathering and moderate resistance to oil and gasoline.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
30 030E1084	1/32 thru 1/4	36, 48	435	300	-30°F to +200°F	2.2 lb	ASTM D 2000 M1BC 303
40 040E0423	1/32 thru 1/4	36, 48	435	300	-30°F to +200°F	2.45 lb	ASTM D 2000 M1BC 403
50 050E0357	1/64 thru 1/2	36, 48	1015	300	-30°F to +200°F	2.46 lb	ASTM D 2000 M1BC 507
60 060E0264	1/64 thru 1/2	36, 48	1015	300	-30°F to +200°F	2.48 lb	ASTM D 2000 M1BC 607
70 070E0321	1/64 thru 1/4	36, 48	1015	200	-30°F to +200°F	2.52 lb	ASTM D 2000 M1BC 707
80 080E1109	1/32 thru 1/4	36, 48	1000	100	-30°F to +200°F	2.75 lb	ASTM D 2000 M1BC 807

## Neoprene MIL-G-1149 / MIL-PRF-1149

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
50 050E0189	1/64 thru 1/4	36, 48	1000	300	-30°F to +200°F	2.67 lb	MIL-G-1149 Type 1 Class 1 Grade 50 (Neoprene)

## Neoprene Performance Molded Sheets

Available in 36"x36" or 48"x48" - Longer lengths available, please call for quote.

Finish: **Smooth** Color: **Black** Trim: **Trimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (5/16" x 36")
20 020E0241	1/8 thru 4	36 x 36 48 x 48	500	550	-30°F to +200°F	5.5 lb
40 040E0913	1/8 thru 4	36 x 36 48 x 48	500	350	-30°F to +200°F	5.4 lb
50 050E0914	1/8 thru 4	36 x 36 48 x 48	500	300	-30°F to +200°F	5.88 lb
60 060E0915	1/8 thru 4	36 x 36 48 x 48	700	250	-30°F to +200°F	5.9 lb
70 070E0916	1/8 thru 4	36 x 36 48 x 48	700	150	-30°F to +200°F	6.15 lb
80 080E0888	1/8 thru 4	36 x 36 48 x 48	700	100	-30°F to +200°F	6.4 lb

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## Premium Neoprene (100% Neoprene)

This product is designed to give maximum performance and service, resisting degradation from ozone and performing well in contact with oils and many chemicals. Premium Neoprene exhibits integrity over a wide temperature range as well as an outstanding resistance to damage caused by flexing and twisting.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
30 030E0242	1/32 thru 1/4	36, 48	435	300	-30°F to +220°F	2.43 lb	ASTM D 2000 M1BC 303
40 040E0247	1/64 thru 1/4	36, 48	1015	400	-30°F to +220°F	2.46 lb	ASTM D 2000 M1BC 407
50 050E0503	1/64 thru 1/4	36, 48	1450	350	-30°F to +220°F	2.54 lb	ASTM D 2000 M1BC 510
60 060E0306	1/64 thru 1/4	36, 48	1450	350	-30°F to +220°F	2.65 lb	ASTM D 2000 M1BC 610
70 070E0313	1/64 thru 1/4	36, 48	1450	250	-30°F to +220°F	2.77 lb	ASTM D 2000 M1BC 710
80 080E0325	1/64 thru 1/4	36, 48	1450	100	-30°F to +220°F	2.79 lb	ASTM D 2000 M1BC 810
90 090E0228	1/32 thru 1/4	36, 48	1015	100	-30°F to +220°F	2.81 lb	ASTM D 2000 M1BC 907

## PSA Ready Neoprene

Specifically designed for use with pressure sensitive adhesives (PSA). We supply the material talc-free: re-rolled in a polyethylene liner.

Finish: **Matte Finish on one side** Color: **Black**







Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Features
40 040E1127	1/32 thru 1/4	36, 48	750	350	-30°F to +200°F	2.15 lb	Designed for use with Pressure Sensitive Adhesives (PSA)
50 050E1128	1/32 thru 1/4	36, 48	900	400	-30°F to +220°F	2.65 lb	Designed for use with Pressure Sensitive Adhesives (PSA)
60 050E0051	1/32 thru 1/4	36, 48	1500	550	-30°F to +200°F	2.6 lb	Designed for use with Pressure Sensitive Adhesives (PSA)
70 070E1129	1/32 thru 1/4	36, 48	1500	250	-30°F to +200°F	2.66 lb	Designed for use with Pressure Sensitive Adhesives (PSA)
80 080E1130	1/32 thru 1/4	36, 48	1000	150	-30°F to +200°F	2.58 lb	Designed for use with Pressure Sensitive Adhesives (PSA)

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# NITRILE'S PROPERTIES







## ENVIRONMENTAL

	Chemical Resistance	Very Good
	Oil Resistance	Excellent
	Weather Resistance	Poor
	Ozone Resistance	Poor
	Oxidization Resistance	Good
	Sunlight Resistance	Poor

## MECHANICAL

	Compression Set	Good
	Abrasion Resistance	Excellent
	Impact Resistance	Good
	Rebound Rating	Good
	Tear Resistance	Good
	Flex Cracking Resistance	Good

## APPLICATION SPECIFIC

	Flame Resistance	Poor
	Minimum Service Temperature	Good
	Maximum Service Temperature	Fair
	Gas Permeability	Good
	Radiation Resistance	Good
	Steam Resistance	Fair

 **PROUDLY MADE IN THE USA**

# NITRILE

- Excellent Oil & Gasoline Resistance
- Superior Petroleum-Based Hydraulic Fluid Resistance
- Very Good Alkalis and Acids Resistance

## AMS 3215 Fuel Resistant

This 70 durometer Nitrile AMS 3215 Fuel Resistant (NBR/Buna-N) is formulated for excellent resistance to continuous exposure to aromatic and aliphatic fuels meeting the SAE AMS 3215 specification requirements.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
70 070P0452	1/64 thru 1/4	36, 48	1700	350	-30°F to +220°F	2.45 lb	AMS 3215 Fuel Resistant (Nitrile)

## ASTM D2000 M5BG (Nitrile)

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040P0626	1/64 thru 1/4	36, 48	1100	500	-40°F to +220°F	2.14 lb	ASTM D 2000 M5BG 407 A14 B14 E014 E034 F17
50 050P0626	1/64 thru 1/4	36, 48	1200	400	-40°F to +220°F	2.22 lb	ASTM D 2000 M5BG 507 A14 B14 E014 E034 F17
60 060P0450	1/64 thru 1/4	36, 48	1700	400	-40°F to +220°F	2.41 lb	ASTM D 2000 M5BG 610 A14 B14 E014 E034 F17
70 070P0627	1/64 thru 1/4	36, 48	1700	300	-40°F to +220°F	2.41 lb	ASTM D 2000 M5BG 710 A14 B14 E014 E034 F17

## Mid-Grade Nitrile

A quality grade blended sheet for applications requiring a higher percentage of Nitrile. This formulation provides greater oil and solvent resistance and has a wider temperature range than commercial Nitrile.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040P0389	1/32 thru 1/4	36, 48	800	400	-30°F to +200°F	2.15 lb	ASTM D2000 1BG 408
50 050P0388	1/32 thru 1/4	36, 48	1000	350	-30°F to +200°F	2.32 lb	ASTM D2000 1BG 510
60 060P0387	1/32 thru 1/4	36, 48	1200	250	-30°F to +200°F	2.46 lb	ASTM D2000 1BG 610
70 070P0386	1/32 thru 1/4	36, 48	1200	200	-30°F to +200°F	2.47 lb	ASTM D2000 1BG 710
80 080P0895	1/32 thru 1/4	36, 48	1200	150	-30°F to +200°F	2.52 lb	ASTM D2000 1BG 810

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## MIL-R-6855 / MIL-PRF-6855 Class 1

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040P0471	1/64 thru 1/4	36, 48	1500	600	-50°F to +220°F	2.15 lb	MIL-R-6855 Class 1 Grade 40
50 050P0472	1/64 thru 1/4	36, 48	1800	550	-50°F to +220°F	2.38 lb	MIL-R-6855 Class 1 Grade 50
60 060P0473	1/64 thru 1/4	36, 48	2100	500	-50°F to +220°F	2.42 lb	MIL-R-6855 Class 1 Grade 60
70 070P0474	1/64 thru 1/4	36, 48	2000	300	-50°F to +220°F	2.5 lb	MIL-R-6855 Class 1 Grade 70
80 080P0475	1/64 thru 1/4	36, 48	1800	200	-50°F to +220°F	2.46 lb	MIL-R-6855 Class 1 Grade 80

## MIL-R-2765 / MIL-PRF-2765 (Nitrile)

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040P0445	1/64 thru 1/4	36, 48	1000	300	-50°F to +220°F	2.24 lb	MIL-R-2765

## MIL-R-3065 SB / ASTM D2000 (Nitrile)

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040P0477	1/64 thru 1/4	36, 48	1000	450	-60°F to +220°F	2.22 lb	MIL-R-3065 SB 410 F2
50 050P0468	1/64 thru 1/4	36, 48	1500	400	-60°F to +220°F	2.22 lb	MIL-R-3065 SB 515 F2
60 060P0461	1/64 thru 1/4	36, 48	1500	300	-60°F to +220°F	2.28 lb	MIL-R-3065 SB 615 F2
70 070P0444	1/64 thru 1/4	36, 48	1500	250	-60°F to +220°F	2.35 lb	MIL-R-3065 SB 715 F2
80 080P0475	1/64 thru 1/4	36, 48	1600	150	-40°F to +220°F	2.45 lb	MIL-R-3065 SB 815 F2

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## Nitrile MIL-G-1149 / MIL-PRF-1149

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specification
50 050P0447	1/64 thru 1/4	36, 48	1000	300	-40°F to +200°F	2.32 lb	MIL-G-1149 Type 1 Class 5 Grade 50 (Nitrile)

## Premium Nitrile

This material is formulated to give excellent fuel and oil resistance and a longer service life in demanding applications.

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040P0179	1/64 thru 1/4	36, 48	1015	450	-30°F to +220°F	2.22 lb	ASTM D 2000 M1BG 407
50 050P0266	1/64 thru 1/4	36, 48	1015	350	-30°F to +220°F	2.32 lb	ASTM D 2000 M1BG 507
60 060P0187	1/64 thru 1/2	36, 48	1450	300	-30°F to +220°F	2.36 lb	ASTM D 2000 M1BG 610
70 070P0135	1/64 thru 1/2	36, 48	1450	250	-30°F to +220°F	2.48 lb	ASTM D 2000 M1BG 710
80 080P0206	1/64 thru 1/4	36, 48	1450	125	-30°F to +220°F	2.59 lb	ASTM D 2000 M1BG 810
90 090P0270	1/32 thru 1/4*	36, 48	1450	100	-30°F to +220°F	2.34 lb	ASTM D 2000 M1BG 910

\*1/4" thick 90 durometer material available in slabs only.

## Transformer Oil Nitrile

A Nitrile material designed specifically for the transformer oil market; helping to dissipate the likelihood of high electrostatic charging tendencies. These highly engineered materials, in addition to meeting their respective ASTM D 2000 line call-outs, meet industry specification GE A12C11E7.

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
60 060P0996	1/32 thru 1/2	36, 48	2000	300	-30°F to +250°F	2.36 lb	ASTM D 2000 5BG 620 A14 B14 E034; General Electric A12C11E7
70 070P0807	1/32 thru 1/2	36, 48	2000	250	-20°F to +250°F	2.42 lb	ASTM D 2000 5BG 720 A14 B14 E034; General Electric A12C11E7

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## Bio-Diesel Nitrile

Specially designed and developed for use in environments where alternative fuels are present. Immersion test results indicate that these materials are compatible with alternative fuels and are suitable for Bio-Diesel B20 (20% Bio-Diesel and 80% Petroleum Diesel) & Bio-Diesel B100 (100% Bio-Diesel).

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Features
60 060P0678	1/32 thru 1/2	36, 48	1050	350	-40°F to +220°F	2.39 lb	Compatible with Bio-Diesel B20 & B100
70 070P1042	1/32 thru 1/2	36, 48	1000	300	-40°F to +220°F	2.4 lb	Compatible with Bio-Diesel B20 & B100

## WARCO White® FDA Nitrile

As its name implies, this material is specially formulated for its whiteness and is used extensively in food and pharmaceutical environments. It is formulated with FDA-approved ingredients. It is non-toxic, non-marking and non-allergenic. It exhibits good abrasion resistance and handles oily and greasy food products well. All materials are made with FDA approved ingredients per 21 CFR 177.2600 and are intended for repeated food exposure.

Finish: **Smooth** Color: **White** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
45 045P0152	1/32 thru 1/2	36, 48	435	300	-30°F to +220°F	2.71 lb	ASTM D 2000 M1BG 503 Z1 Z2 Z3, * FDA approved ingredients per 21 CFR 177.2600
55 055P0146	1/32 thru 1/2	36, 48	1015	250	-30°F to +220°F	2.75 lb	ASTM D 2000 M1BG 607 Z1 Z2 Z3, * FDA approved ingredients per 21 CFR 177.2600
65 065P0364	1/32 thru 1/2	36, 48	1015	200	-30°F to +220°F	2.95 lb	ASTM D 2000 M1BG 707 Z1 Z2 Z3, * FDA approved ingredients per 21 CFR 177.2600
80 080P0100	1/32 thru 1/4	36, 48	435	100	-30°F to +220°F	3.31 lb	ASTM D 2000 M1BG 803 Z1 Z2*, * FDA approved ingredients per 21 CFR 177.2600







\*Z1 = ± 5 Durometer, Z2 = FDA Ingredients per 21 CFR 177.2600, Z3 = White in Color  
\*\*Z1 = FDA Ingredients per 21 CFR 177.2600, Z2 = White in Color

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**WARCO®**

# EPDM'S PROPERTIES







## ENVIRONMENTAL

	Chemical Resistance	Good
	Oil Resistance	Fair
	Weather Resistance	Excellent
	Ozone Resistance	Excellent
	Oxidization Resistance	Excellent
	Sunlight Resistance	Outstanding

## MECHANICAL

	Compression Set	Good
	Abrasion Resistance	Excellent
	Impact Resistance	Very Good
	Rebound Rating	Very Good
	Tear Resistance	Fair
	Flex Cracking Resistance	Very Good

## APPLICATION SPECIFIC

	Flame Resistance	Poor
	Minimum Service Temperature	Good
	Maximum Service Temperature	Very Good
	Gas Permeability	Good
	Radiation Resistance	Good
	Steam Resistance	Excellent

 **PROUDLY MADE  
IN THE USA**

# EPDM

- Excellent Heat, Ozone & Sunlight Resistance
- Outstanding Alkali, Acid & Oxygenated Solvent Resistance
- Superior Water & Steam Resistance

## ASTM D2000 M4AA (EPDM)

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040K0175	1/64 thru 1/4	36, 48	1500	500	-60°F to +300°F	2.1 lb	ASTM D 2000 M4AA 407 A13 B13 C12 F17
50 050K0336	1/64 thru 1/4	36, 48	1600	400	-40°F to +220°F	2.08 lb	ASTM D 2000 M4AA 510 A13 B13 C12 F17
60 060K0190	1/64 thru 1/4	36, 48	1800	400	-60°F to +300°F	2.14 lb	ASTM D 2000 M4AA 610 A13 B13 C12 F17
70 070K0186	1/64 thru 1/4	36, 48	1700	200	-60°F to +300°F	2.2 lb	ASTM D 2000 M4AA 710 A13 B13 C12 F17

## Commercial EPDM

Commercial EPDM is great for outdoor environments. Offers excellent resistance to ozone, oxidants, and severe weather conditions. Made in the USA.

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
50 050K0216	1/64 thru 1/4	36, 48	1450	400	-40°F to +220°F	2.23 lb	ASTM D 2000 M1AA 503
60 060K0217	1/64 thru 1/4	36, 48	870	250	-40°F to +220°F	2.31 lb	ASTM D 2000 M1AA 606
70 070K0218	1/64 thru 1/4	36, 48	1100	250	-40°F to +220°F	2.29 lb	ASTM D 2000 M1AA 706

## MIL-R-21252 (EPDM)

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
85 085K0104	1/64 thru 1/4	36, 48	1600	70	-40°F to +220°F	2.3 lb	MIL-R-21252 MIL-DTL-21252

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## MIL-R-83285 Grade 80 (EPDM)

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
80 080K0386	1/64 thru 1/4	36, 48	1800	150	-60°F to +300°F	2.32 lb	MIL-R-83285 Grade 80 SAE-AMS-R-83285

## MIL-R-900 (EPDM)

Finish: Smooth Color: Black Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
45 045K0438	1/64 thru 1/4	36, 48	1000	300	-40°F to +220°F	2.1 lb	MIL-R-900

## Peroxide Cure EPDM

Peroxide cured EPDM provides exceptional heat and aging stability and better compression set performance at higher temperatures. Most peroxides do not bloom and have better color control and stability.

Finish: Smooth Color: Black Trim: Untrimmed







Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040K0175	1/64 thru 1/4	36, 48	1450	400	-67°F to +300°F	2.13 lb	ASTM D 2000 M1CA 410
50 050K0474	1/64 thru 1/4	36, 48	1450	300	-67°F to +300°F	2.1 lb	ASTM D 2000 M1CA 510
60 060K0190	1/64 thru 1/4	36, 48	1450	300	-60°F to +275°F	2.15 lb	ASTM D 2000 M1CA 610
70 070K0186	1/64 thru 1/4	36, 48	1450	200	-60°F to +275°F	2.2 lb	ASTM D 2000 M1CA 710
80 080K0386	1/64 thru 1/4	36, 48	1450	150	-60°F to +275°F	2.32 lb	ASTM D 2000 M1CA 810

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**WARCO®**

# FLUOROELASTOMER FKM'S PROPERTIES







## ENVIRONMENTAL

	Chemical Resistance	Excellent
	Oil Resistance	Outstanding
	Weather Resistance	Outstanding
	Ozone Resistance	Outstanding
	Oxidization Resistance	Outstanding
	Sunlight Resistance	Outstanding

## MECHANICAL

	Compression Set	Very Good
	Abrasion Resistance	Good
	Impact Resistance	Good
	Rebound Rating	Good
	Tear Resistance	Good
	Flex Cracking Resistance	Good

## APPLICATION SPECIFIC

	Flame Resistance	Excellent
	Minimum Service Temperature	Good
	Maximum Service Temperature	Outstanding
	Gas Permeability	Very Good
	Radiation Resistance	Good
	Steam Resistance	Good

 **PROUDLY MADE  
IN THE USA**

# FLUOROELASTOMER FKM

- Fluorozone™ FKM & Viton™
- Excellent Heat Stability (200°C)
- Superior Aggressive Fuel and Chemical Resistance
- High-Performance Elastomer

# Fluorozone®

## Premium Performance FKM

Fluorozone® Premium Performance FKM sheet is made with 100% virgin domestic-made premium 3M™ Dyneon™ Fluoroelastomer polymer. With 66% Fluorine content, Fluorozone® Premium Performance FKM is comparable to A-type Fluoroelastomer products. This material exhibits resistance to a broad range of oils, fuels, lubricants and most mineral acids. Fluorozone® has very good resistance to many aliphatic hydrocarbon fluids that can dissolve many other types of rubber.

Finish: **Smooth** (Nylon finish available, upcharge will apply) Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Sheet Width inches	Tensile (psi)		Ultimate Elongation (%)		Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Compound
			minimum	typical	minimum	typical			
60	1/64 - 1/4	36, 48	800	1200	250	350	-20°F to +400°F	3.65 lb	060F0207
70	1/64 - 1/4	36, 48	900	1200	200	300	-20°F to +400°F	3.65 lb	075F0233
75	1/64 - 1/4	36, 48	1000	1250	200	300	-20°F to +400°F	3.65 lb	075F0205

Tensile & Elongation physicals are presented in minimum and typical values - we certify to minimum value.

# Fluorozone®

## Brown Premium Performance FKM

Fluorozone® Brown Premium Performance FKM sheet is made with 100% virgin USA-made premium 3M™ Dyneon™ Fluoroelastomer polymer (*formerly known as Fluorel™*). Fluorozone® Brown Premium Performance FKM exhibits resistance to a broad range of oils, fuels, lubricants and most mineral acids. Fluorozone® has very good resistance to many aliphatic hydrocarbon fluids that can dissolve many other types of rubber.

Finish: **Smooth** (Nylon finish available, upcharge will apply) Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Sheet Width inches	Tensile (psi)	Ultimate Elongation (%)	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Compound
			typical	typical			
75	1/64 - 1/4	36, 48	1200	200	-20°F to +400°F	4.40 lb	075F0217

Tensile & Elongation physicals are presented in minimum and typical values - we certify to minimum value.

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# Fluorozone®

## Mil-Spec Performance FKM

Fluorozone® Mil-Spec Performance FKM sheet is formulated to meet the AMS 3216 specification (supercedes MIL-R-83248) and is made with 100% virgin domestic-made premium 3M™ Dyneon™ Fluoroelastomer polymer (formerly known as Fluorel™). Fluorozone Mil-Spec Performance FKM is our second offering in the Fluorozone® FKM product family. This material exhibits a higher temperature range and increased tensile strength compared to our Fluorozone Premium Performance grade. Fluorozone has very good resistance to many aliphatic hydrocarbon fluids that can dissolve many other types of rubber and has resistance to a broad range of oils, fuels, lubricants and most mineral acids.

Finish: **Smooth** (Nylon finish available, upcharge will apply) Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Sheet Width inches	Tensile (psi)		Ultimate Elongation (%)		Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Compound
			minimum	typical	minimum	typical			
75 075F0212	1/32 - 1/4	36, 48	1600	1850	125	150	-20°F to +500°F	3.55 lb	AMS 3216G, MIL-R-83248C Type II Class 1

Tensile & Elongation physicals are presented in minimum and typical values - we certify to minimum value.

# Fluorozone®

## FDA Performance FKM

Formulated for food and lab applications where FDA compliance is required. Made from FDA-approved ingredients per 21 CFR 177.2600 including 100% virgin domestic-made premium 3M™ Dyneon™ Fluoroelastomer polymer (formerly known as Fluorel™). With 66% Fluorine content, this material exhibits resistance to a broad range of oils, fuels, lubricants and most mineral acids. It has very good resistance to many aliphatic hydrocarbon fluids that act as solvents for many other rubbers.

Finish: **Smooth** (Nylon finish available, upcharge will apply) Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Sheet Width inches	Tensile (psi)	Ultimate Elongation (%)	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specification
			typical	typical			
60 060F0221	1/64 - 1/4	36, 48	1200	250	-20°F to +450°F	3.76 lb	FDA 21 CFR 177.2600
75 075F0223	1/64 - 1/4	36, 48	900	200	-20°F to +450°F	3.92 lb	FDA 21 CFR 177.2600

Tensile & Elongation physicals are presented in minimum and typical values - we certify to minimum value.

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## Viton® A Sheet

Viton™ A Sheet, made with Viton™ fluoroelastomers, exhibits a broad range of resistance to oils, fuels, lubricants and most mineral acids. It has very good resistance to many aliphatic hydrocarbon fluids that act as solvents for many other rubbers. Exceptionally good compression set attributes, even at temperatures that can embrittle other non-fluorinated elastomers. It also exhibits good resistance to atmospheric oxidation, sun, and weather, and has excellent resistance to mold. Made in the USA. Premium, specification, and commercial grades are available. Samples available upon request.



Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
60 060F0053	1/16 - 1/4	36, 48	1000	200	-20°F to +450°F	3.79 lb	ASTM D2000 M1HK 607
70 070F0052	1/32 - 1/4	36, 48	1000	175	-20°F to +450°F	3.58 lb	ASTM D2000 M1HK 707
75 075F2124	1/32 - 1/4	36, 48	1000	175	-20°F to +400°F	3.67 lb	Cinnamon Scented, Viton™ fluoroelastomer
80 080F0054	1/32 - 1/4	36, 48	1000	150	-20°F to +450°F	3.61 lb	ASTM D2000 M1HK 807

## Viton® A Brown Sheet

Viton™ A Brown Sheet, made with Viton™ fluoroelastomers, exhibits a broad range of resistance to oils, fuels, lubricants and most mineral acids. It has very good resistance to many aliphatic hydrocarbon fluids that act as solvents for many other rubbers. Exceptionally good compression set attributes, even at temperatures that can embrittle other non-fluorinated elastomers. It also exhibits good resistance to atmospheric oxidation, sun, and weather, and has excellent resistance to mold. Made with 66% fluorine content. Made in the USA. Premium, specification, and commercial grades are available. Samples available upon request.



Finish: **Smooth** Color: **Brown** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Features
75 075F0123	1/32 - 1/4	36, 48	1000	175	-20°F to +400°F	4.41 lb	Cinnamon Scented, Viton™ fluoroelastomer

## Viton® A Specification Sheet

WARCO is approved under the United States Government's QPL 83248-3. Viton™ A Specification Grade Sheet is formulated to meet the AMS 3216 specification (supersedes MIL-R-83248) and is made with Viton™ fluoroelastomer. This material exhibits a high temperature range (up to 500°F) and increased tensile strength. Viton™ A Specification Grade Sheet has very good resistance to many aliphatic hydrocarbon fluids that can dissolve many other types of rubber and has resistance to a broad range of oils, fuels, lubricants and most mineral acids. Made in the USA. Premium and commercial grades, and additional specifications are available. Samples available upon request.



Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
75 075F0081	Rolls: 1/64 - 1/4 Molded Sheets: Up to 4	1600	125	-20°F to +500°F	3.63 lb	AMS 3216G, MIL-R-83248C Type II Class 1

## Viton® A FDA Sheet

Viton™ A FDA Sheet, made with Viton™ fluoroelastomers, is well suited for food and lab applications where FDA compliance is required. This material has good chemical resistance, high temperature properties and is resistant to corrosives. Safe to use for repeated food exposure. Made with Viton™ fluoroelastomer. Made in the USA. Premium, specification, and commercial grades are available. Samples available upon request.



Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Features
75 075F0151	1/64 - 1/4	36, 48	700	150	-20°F to +450°F	3.63 lb	FDA Approved Ingredients per 21 CFR 177.2600

## Viton® B Sheet

Viton™ B Sheet, made with Viton™ fluoroelastomers, has greater resistance and retains flexibility better after dry heat aging than Viton™ A. It is recommended for applications requiring maximum retention of elastic properties combined with good mechanical properties. Viton™ B Sheet offers superior resistance to both diluted and concentrated aggressive acids. Made in the USA. Premium, specification, and commercial grades are available. Samples are available.



Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
70 070F0195	1/32 – 1/4	36, 48	1000	175	-20°F to +450°F	3.75 lb	ASTM D 2000 M1HK 707
75 075F0165	1/32 – 1/4	36, 48	1000	150	-20°F to +450°F	3.81 lb	ASTM D 2000 M1HK 807 Z1 (Z1 = 75 ± 5 Durometer)

## Application-Specific Questions?



With 114+ years of experience and thousands of applications serviced, our team is well equipped to answer any rubber related questions you may have. Ask us today!







 [warco.com](http://warco.com)  714-532-3355

 [sales@warco.com](mailto:sales@warco.com)







**WARCO®**

# INFINISIL™ SILICONE'S PROPERTIES







## ENVIRONMENTAL

	Chemical Resistance	Excellent
	Oil Resistance	Very Good
	Weather Resistance	Excellent
	Ozone Resistance	Outstanding
	Oxidization Resistance	Excellent
	Sunlight Resistance	Excellent

## MECHANICAL

	Compression Set	Good
	Abrasion Resistance	Fair
	Impact Resistance	Fair
	Rebound Rating	Excellent
	Tear Resistance	Poor
	Flex Cracking Resistance	Excellent

## APPLICATION SPECIFIC

	Flame Resistance	Excellent
	Minimum Service Temperature	Outstanding
	Maximum Service Temperature	Excellent
	Gas Permeability	Fair
	Radiation Resistance	Good
	Steam Resistance	Good

 **PROUDLY MADE IN THE USA**

# INFINISIL™ SILICONE

- Superior Temperature Resistance
- Water Resistant
- Excellent Chemical Resistances

# INFINISIL™

**Performance Silicone**

WARCO's commercial grade silicone sheet is designed to be used in applications where physical properties are not critical but extreme temperature (high or low) resistance is still needed. This material also provides excellent UV and ozone resistance. It is non-toxic, chemically inert and fungus resistant.

Finish: Smooth Color: Red (Also available in Black, White, & Gray) Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Features
40 040S0842	1/32 thru 1/4	36, 48	750	450	-65°F to +450°F	2.36 lb	High and Low Temperature Resistance, Excellent Weathering Resistance
50 050S0843	1/32 thru 1/4	36, 48	750	400	-65°F to +450°F	2.46 lb	
60 060S0844	1/32 thru 1/4	36, 48	800	350	-65°F to +450°F	2.63 lb	
70 070S0845	1/32 thru 1/4	36, 48	800	300	-65°F to +450°F	2.59 lb	
80 080S0846	1/32 thru 1/4	36, 48	800	150	-65°F to +450°F	--- lb	

# INFINISIL™

**Spec-Grade Performance Silicone**

INFINISIL™ Spec-Grade Performance Silicone is designed to be used in applications where higher physical properties and lower compression set are required. It is resistant to extreme high and low temperature ranges and is proven to be an excellent gasketing material. Meets the A-A-59588 specification which supercedes ZZ-R-765.

Finish: Smooth Color: Red (Also available in Black, White, & Gray) Trim: Untrimmed

Durometer Hardness Shore A ± 5	Thickness inches	Sheet Width inches	Tensile (psi) minimum	Ultimate Elongation (%) minimum	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040S0561	1/32 thru 1/4	36, 48	725	300	-80°F to +450°F	2.36 lb	A-A-59588 2A & 2B Grade 40, AMS 3301, ASTM D2000 M1GE 405
50 050S0562	1/32 thru 1/4	36, 48	725	250	-80°F to +450°F	2.42 lb	A-A-59588 2A & 2B Grade 50, AMS 3302, ASTM D2000 M1GE 505
60 060S0563	1/32 thru 1/4	36, 48	725	200	-80°F to +450°F	2.57 lb	A-A-59588 2A & 2B Grade 60, AMS 3303, ASTM D2000 M1GE 605
70 070S0564	1/32 thru 1/4	36, 48	725	150	-80°F to +450°F	2.59 lb	A-A-59588 2A & 2B Grade 70, AMS 3304, ASTM D2000 M1GE 705

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# INFINISIL™

**FDA Performance Silicone**

This Silicone material is designed for applications where food or consumables are present. FDA Silicone is low volatile, peroxide-free and does not discolor over time. The ingredients used to make this product are listed in CFR 177.2600, an FDA regulation dealing with rubber articles that are intended for repeated food exposure. This material is ozone and UV resistant.

Finish: **Smooth**    Color: **Red (Also available in Black, White, & Gray)**    Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040S1090	1/32 thru 1/4	36, 48	450	300	-80°F to +400°F	2.18 lb	FDA approved ingredients per 21 CFR 177.2600
50 050S1091	1/32 thru 1/4	36, 48	450	250	-80°F to +400°F	2.54 lb	
60 060S1092	1/32 thru 1/4	36, 48	450	200	-80°F to +400°F	2.67 lb	
70 070S1093	1/32 thru 1/4	36, 48	450	150	-80°F to +400°F	2.75 lb	
80 080S1094	1/32 thru 1/4	36, 48	450	100	-80°F to +400°F	2.77 lb	

# INFINISIL™

**Fiberglass Inserted Silicone**

INFINISIL™ Fiberglass Inserted Silicone is preferred where dimensional stability from mechanically reinforced silicone sheet rubber is required.

It is resistant to extreme high and low temperature ranges and is proven to be an excellent gasketing material. With increased tensile strength from fiberglass reinforcement may be used in belting and diaphragm applications. Made in the USA.

Finish: **Smooth, Nylon**    Trim: **Untrimmed**  
Color: **Red (Also available in Black, White, & Gray)**







Durometer Hardness Shore A ± 5	Thickness inches	Sheet Width inches	Tensile (psi) typical	Ultimate Elongation (%) typical	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040S0842	1/32 thru 1/4 Molded Sheets: Up to 4	36, 48	750	450	-80°F to +450°F	2.36 lb	Fiberglass Inserted Silicone Sheet
50 050S0843	1/32 thru 1/4 Molded Sheets: Up to 4	36, 48	750	400	-80°F to +450°F	2.46 lb	Fiberglass Inserted Silicone Sheet
60 060S0844	1/32 thru 1/4 Molded Sheets: Up to 4	36, 48	800	350	-80°F to +450°F	2.63 lb	Fiberglass Inserted Silicone Sheet
70 070S0845	1/32 thru 1/4 Molded Sheets: Up to 4	36, 48	800	300	-80°F to +450°F	2.59 lb	Fiberglass Inserted Silicone Sheet

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## NATURAL RUBBER'S PROPERTIES







### ENVIRONMENTAL

	Chemical Resistance	Poor
	Oil Resistance	Poor
	Weather Resistance	Fair
	Ozone Resistance	Poor
	Oxidization Resistance	Good
	Sunlight Resistance	Poor

### MECHANICAL

	Compression Set	Excellent
	Abrasion Resistance	Excellent
	Impact Resistance	Excellent
	Rebound Rating	Excellent
	Tear Resistance	Very Good
	Flex Cracking Resistance	Excellent

### APPLICATION SPECIFIC

	Flame Resistance	Poor
	Minimum Service Temperature	Good
	Maximum Service Temperature	Poor
	Gas Permeability	Good
	Radiation Resistance	Good
	Steam Resistance	Good

 **PROUDLY MADE IN THE USA**

# NATURAL RUBBER

- Superior Dynamic Properties (Resilience, Tensile, Elongation)
- Excellent Abrasion Resistance
- Excellent Fabric & Metals Adhesion

## EZ Cut Non-Floating Gum Natural Rubber

Superior resilience, tensile, elongation and abrasion resistance properties. It has good tear strength and is resistant to water, most salts, mild acids, and many other chemicals. Made with FDA approved ingredients per 21 CFR 177.2600.

Finish: **Smooth** Color: **Dark Tan** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040R0579	1/64 thru 1/4	36, 48	2500	500	-40°F to +160°F	2.19 lb	ASTM D 2000 M1AA 417, FDA approved ingredients per 21 CFR 177.2600

## Black Natural Rubber

Our Black Natural Rubber exhibits extremely good resiliency and abrasion resistance. It has good tear strength and is resistant to water, most salts and mild acids.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040R0246	1/64 thru 1/4	36, 48	2800	600	-40°F to +160°F	1.91 lb	ASTM D 2000 M1AA 417
50 050R0566	1/64 thru 1/4	36, 48	2700	550	-40°F to +160°F	2.07 lb	ASTM D 2000 M1AA 517
60 060R0134	1/64 thru 1/4	36, 48	2700	500	-40°F to +160°F	2.28 lb	ASTM D 2000 M1AA 617

## Protein Free (Synthetic Polyisoprene) Natural Rubber

This offering represents a synthetic polyisoprene which does not contain protein, which can cause allergic reactions in some cases. All materials are made with FDA approved ingredients per 21 CFR 177.2600.

Finish: **Smooth** Color: **Light Tan** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040R0526	1/64 thru 1/4	36, 48	2800	600	-40°F to +160°F	1.91 lb	ASTM D 2000 M1AA 417, FDA approved ingredients per 21CFR 177.2600

This material does not contain protein, which may cause allergic reactions.

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## Pure Gum Floating Natural Rubber

Light Tan Pure Gum Floating stock has superior resilience, tensile, elongation and abrasion resistance properties. Light Tan Natural Rubber is produced entirely with FDA approved ingredients per 21 CFR 177.2600. It has good tear strength and is resistant to water, most salts, mild acids, and many other chemicals. Not suited for environments involving ozone, strong acids, animal fats, oils, greases, and most hydrocarbons. Non-marking and safe to use for repeated food exposure.

Finish: **Smooth** Color: **Light Tan (Also available in Black)** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040R0149	1/16 thru 1/2	36, 48	2465	500	-40°F to +160°F	1.91 lb	ASTM D 2000 M1AA 417, FDA Approved Ingredients PER 21CFR 177.2600

## Tuff-Stuff® Natural Rubber

Tuff-Stuff® Natural Rubber is an outstanding abrasion resistant material. Tuff-Stuff® delivers an optimum combination of tear, abrasion, noise, and impact resistance resulting in reduced maintenance costs and longer service life from capital equipment. Tuff-Stuff® and Tuff-Stuff Plus® have each been specifically formulated and field proven to deliver the ultimate in durability and long life for high production mineral and aggregate facilities. Tear Resistance (Die C) = 200 PPI.

Finish: **Smooth** Color: **Red** Trim: **Untrimmed**







Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040R0573	1/8 thru 2	36, 48	3046	600	-40°F to +160°F	1.93 lb	ASTM D 2000 M4AA 421 F17 G21

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# SBR'S PROPERTIES







## ENVIRONMENTAL

	Chemical Resistance	Fair
	Oil Resistance	Fair
	Weather Resistance	Good
	Ozone Resistance	Poor
	Oxidization Resistance	Excellent
	Sunlight Resistance	Poor

## MECHANICAL

	Compression Set	Good
	Abrasion Resistance	Excellent
	Impact Resistance	Excellent
	Rebound Rating	Excellent
	Tear Resistance	Good
	Flex Cracking Resistance	Good

## APPLICATION SPECIFIC

	Flame Resistance	Poor
	Minimum Service Temperature	Good
	Maximum Service Temperature	Poor
	Gas Permeability	Fair
	Radiation Resistance	Good
	Steam Resistance	Good

 **PROUDLY MADE  
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# SBR

- Good Abrasion Resistance
- Excellent Impact Strength
- Superior Resilience
- High Tensile Strength

## Commercial SBR

Exhibits good abrasion resistance, impact strength, resilience and tensile strength. Not suited for use with oils, fuels, solvents, or hydraulic fluids.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range
40 040A0389	1/32 thru 1/4	36, 48	800	400	-40°F to +180°F
50 050A0390	1/32 thru 1/4	36, 48	800	250	-40°F to +180°F
60 060A0387	1/32 thru 1/4	36, 48	800	200	-40°F to +180°F
70 070A0391	1/32 thru 1/4	36, 48	1000	150	-40°F to +180°F

## SBR MIL-G-1149 / MIL-PRF-1149

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
50 050A0172	1/16 thru 1/4	36, 48	1000	400	-40°F to +180°F	2.13 lb	MIL-G-1149 Type 1 Class 2 Grade 50 (SBR)

## Specification Grade SBR

A premium grade SBR sheet with a high tensile strength. Well suited for the heating and plumbing trades. Has good aging, abrasion and tear resistant properties. Refer to physical properties and ASTM data in assessing suitability for intended applications.

Finish: **Smooth** Color: **Red (Also available in Black)** Trim: **Untrimmed**

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
75 075A0370	1/16 thru 1/4	36, 48	435	150	-40°F to +180°F	3.0 lb	ASTM D 2000 M1AA 703 Z1 (Z1 = 75 ± 5 Durometer)

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Rubber Tubing  
& Cable Jacketing

**PURE**

NSF/ANSI/CAN 61 Approved  
Rubber Materials

Cloth Inserted  
(CI) Sheet

Additional  
Polymers

**REBOUNDS**<sup>®</sup>  
ENGINEERED RUBBER BUMPERS

Expansion Joints,  
Pavement Seals &  
Rubber Thresholds

Utility Tarp  
Rubber Straps &  
Rubber Waterstops

Thermoplastic  
Elastomer  
(TPE)

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# SPECIALTY PRODUCTS

From NSF/ANSI/CAN approved sealing materials to cloth reinforced rolls of sheet rubber, we offer a variety of industry specific products engineered to exceed the needs of key applications.

# 60 Durometer Neoprene Tubing

WARCO's 60 Durometer Neoprene Tubing is Anti-Fungal per Mil-Std-8.10 and is designed to meet the Mil-R-6855 Class 2 specification. Compression Set = 50% max. Material is supplied unmarked. For markings, please contact us.



Durometer Hardness Shore A ± 5	Inner Diameter Range inches	Wall Thickness Range inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Specifications
60 060E0713	1/16 thru 5	1/32 thru 1	1500	300	-50°F to +220°F	MIL-R-6855 Class 2 Type A/B Grade 60 Very Restrictive Microbial Growth per Mil-Std-810

The following sizes are stock items:



**1/4" ID**  
(±0.010)

**1/16" Wall**  
(±0.009)



**5/16" ID**  
(±0.011)

**1/16" Wall**  
(±0.009)



**3/8" ID**  
(±0.013)

**1/16" Wall**  
(±0.009)



**1/2" ID**  
(±0.016)

**1/16" Wall**  
(±0.009)



**9/16" ID**  
(±0.017)

**1/16" Wall**  
(±0.009)



**5/8" ID**  
(±0.018)

**1/16" Wall**  
(±0.009)



**21/32" ID**  
(±0.019)

**1/16" Wall**  
(±0.009)



**3/4" ID**  
(±0.021)

**1/16" Wall**  
(±0.009)

# Neoprene Cable Jacket Tubing to Mil-R-6855 Class 2 Type A/B Grade 60

Protects wires and cables from abrasion, corrosion and the elements. Designed to fit loose or be blown on to wire bundles for a tight fit. WARCO carries compound in stock for a shorter production lead time.



Durometer Hardness Shore A ± 5	Inner Diameter Range inches	Wall Thickness Range inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Specifications
60 060E0713	1/16 thru 5	1/32 thru 1	1500	300	-50°F to +220°F	MIL-R-6855 Class 2 Type A/B Grade 60 Very Restrictive Microbial Growth per Mil-Std-810

Catalog Pricing is available on the following pages for the Wall Thicknesses below:



**1/32" Wall**



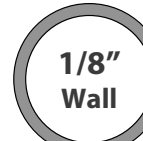
**3/64" Wall**



**1/16" Wall**



**3/32" Wall**



**1/8" Wall**



**5/32" Wall**



**3/16" Wall**

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# PURE™

Rubber Products Certified To  
**NSF/ANSI/CAN 61**

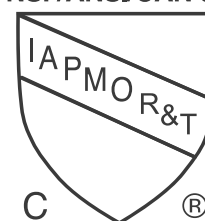
- Potable Water Gaskets
- Tank, Valve, and Pump Seals
- Hydration Filters

Introducing **PURE™**, rubber materials certified under NSF/ANSI/CAN 61, providing clean gasketing & sealing solutions for the water treatment sector.

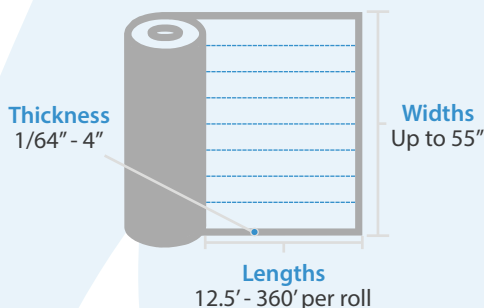
**PURE™**, is uniquely formulated to provide your exact requirements in Sheet, Molded, & Extruded rubber products, ensuring safety in water temperatures up to 82°C/180°F (Commercial Hot).

Inquire today about how **PURE™** can excel in your potable water applications.

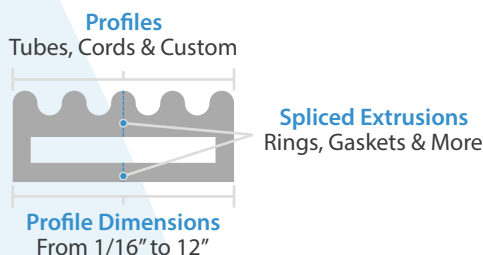
**LEAD FREE  
NSF/ANSI/CAN 61**



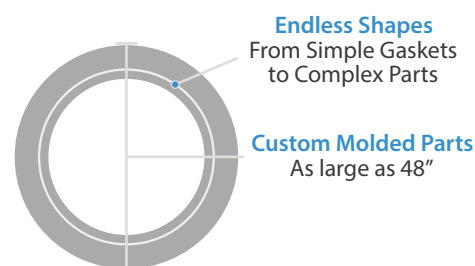
## Sheet Rubber



## Rubber Extrusions



## Molded Rubber



## Material Properties

### Physicals

Polymer	EPDM
Durometer	75
Temperature Range	-67°F to +300°F
Tensile	1500 psi
Ultimate Elongation	250%

### Specifications & Certifications

- NSF/ANSI/CAN 61 Approved & Certified
- NSF/ANSI/CAN 372 - Lead Free
- AWWA C-111/A21.11 (Table 4)
- Commercial Hot Water Certified (up to 180°F)
- ASTM D2000 M5CA810 A25 B35 C32 EA14 F17 Z1, (Z1= 75 ± 5 duro)
- ASTM D1330 – Grade 1, 2 and Steam (Table 1)
- FDA Approved Ingredients per 21 CFR 177.2600



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## Cloth-Inserted Neoprene - Regular Cotton Ply

Cloth reinforcement enhances dimensional stability in flanged gasket applications with high compression loads. This construction includes one ply of cotton fabric for each 1/16" thickness.

Temperature Range: -30°F to +200°F Finish: **Smooth** Color: **Black** Trim: **Untrimmed** Fabric Type: **Cotton**

Durometer Hardness* Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Fabric Type	Estimated Weight Per Foot (1/8" x 36")	Features
70* 070E1162	1/16 thru 1/4	36, 48	1000	Cotton	2.41 lb	Cotton-Inserted Sheet

\*Physicals are based on rubber only (no insert).

Durometer and tensile strength of the above material is calculated with the respective material inserted into the sheet.

This construction includes one Cotton ply for each 1/16" thickness: 1/16 - 3/32 = 1 ply 1/8" = 2 plies 3/16" = 3 plies 1/4" = 4 plies

## Cloth-Inserted Neoprene - Regular Polyester Ply

Cloth reinforcement enhances dimensional stability in flanged gasket applications with high compression loads. This construction includes one ply of polyester fabric for each 1/16" thickness.

Temperature Range: -30°F to +200°F Finish: **Smooth** Color: **Black** Trim: **Untrimmed** Fabric Type: **Polyester**

Durometer Hardness* Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Fabric Weight	Fabric Type	Estimated Weight Per Foot (1/8" x 36")	Features
70* 070E1028	1/16 thru 1/4	36, 48	1000	200	4.0 oz	Polyester	2.34 lb	Polyester-Inserted Sheet

\*Physicals are based on rubber only (no insert).

Durometer and tensile strength of the above material is calculated with the respective material inserted into the sheet.

This construction includes one ply for each 1/16" thickness: 1/16 - 3/32 = 1 ply 1/8" = 2 plies 3/16" = 3 plies 1/4" = 4 plies

## Cloth-Inserted SBR - Regular Cotton Ply

Cloth reinforcement enhances dimensional stability in flanged gasket applications with high compression loads. Suitable for use in air, hot water, low pressure steam, and hydraulic services. An SBR compound reinforced with a close weave cotton fabric. This construction includes one ply of cotton fabric for each 1/16" thickness.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness* Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Fabric Type	Temperature Range*	Estimated Weight Per Foot (1/8" x 36")	Features
65* 065A0447	1/16 thru 1/4	36, 48	1500	350	Cotton	-30°F to +170°F*	2.75 lb	Cotton-Inserted Sheet

\*Physicals are based on rubber only (no insert).

This construction includes one ply for each 1/16" thickness: 1/16 - 3/32 = 1 ply 1/8" = 2 plies 3/16" = 3 plies 1/4" = 4 plies

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## Cloth-Inserted SBR - Regular Polyester Ply

Cloth reinforcement enhances dimensional stability in flanged gasket applications with high compression loads. Suitable for use in air, hot water, low pressure steam, and hydraulic services. An SBR compound reinforced with a close weave polyester. This construction includes one ply of polyester fabric for each 1/16" thickness.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness* Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Fabric Type	Temperature Range*	Estimated Weight Per Foot (1/8" x 36")	Features
65* 065A0446	1/16 thru 1/4	36, 48	1500	350	4.0 oz Polyester	-30°F to +170°F*	2.74 lb	Polyester-Inserted Sheet

\*Physicals are based on rubber only (no insert).

This construction includes one ply for each 1/16" thickness: 1/16 - 3/32 = 1 ply 1/8" = 2 plies 3/16" = 3 plies 1/4" = 4 plies

## Cloth-Inserted SBR - Reduced Cotton Ply

Like Regular Ply CI Sheet, reduced ply CI sheet addresses the need for dimensional stability in applications with high compression loads. Cotton fabric content per thickness is one ply for 1/8", two plies for 3/16", and three plies for 1/4".

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness* Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Fabric Type	Temperature Range*	Estimated Weight Per Foot (1/8" x 36")	Features
65* 065A0447	1/16 thru 1/4	36, 48	400	200	Cotton	-30°F to +170°F*	2.75 lb	Cotton-Inserted Sheet

\*Physicals are based on rubber only (no insert).

This construction includes one ply for each 1/16" thickness: 1/16 - 3/32 = 1 ply 1/8" = 2 plies 3/16" = 3 plies 1/4" = 4 plies

## Cloth-Inserted SBR - Reduced Polyester Ply

Like Regular Ply CI Sheet, reduced ply CI sheet addresses the need for dimensional stability in applications with high compression loads. Polyester fabric content per thickness is one ply for 1/8", two plies for 3/16", and three plies for 1/4".

Finish: **Smooth** Color: **Black** Trim: **Untrimmed**

Durometer Hardness* Shore A ± 5	Thickness inches	Width inches	Tensile typical. psi	Ultimate Elongation typical. %	Fabric Type	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Features
65* 065A0446	1/16 thru 1/4	36, 48	400	200	4.0 oz Polyester	-30°F to +170°F*	2.74 lb	Polyester-Inserted Sheet

\*Physicals are based on rubber only (no insert).

This construction includes one ply for each 1/16" thickness: 1/16 - 3/32 = 1 ply 1/8" = 2 plies 3/16" = 3 plies 1/4" = 4 plies

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## HHP-151F Cloth-Inserted (CI) Sheet

Designed for ventilating systems and for flange joints for water or brine systems to withstand 250 pounds of pressure. A typical application is a flange gasket in which the compression loads are so high that non-reinforced rubber would squeeze or extrude out between the flanges.

Finish: **Smooth** Color: **Black** Trim: **Untrimmed** Fabric Type: **Cotton**

Class	Polymer	Durometer Hardness* Shore A ± 5	Thickness inches	Width inches	Tensile* typical. psi	Ultimate Elongation* typical. %	Temperature Range	Fabric Weight per sq yd	Estimated Weight Per Foot (1/8" x 36")	Oil Resistance
1	SBR	50 050A0425	1/16 thru 1/4	36, 48	1800	450	-40°F to +200°F	10.8 oz	2.23 lb	n/a
2	Neoprene	60 060E1395	1/16 thru 1/4	36, 48	1650	350	-40°F to +220°F	10.8 oz	2.73 lb	Medium
3	SBR	50 050A0425	1/16 thru 1/4	36, 48	1800	450	-40°F to +200°F	10.8 oz	2.23 lb	n/a
4	Nitrile	50 050P1016	1/16 thru 1/4	36, 48	1600	600	-40°F to +250°F	10.8 oz	2.40 lb	High

\*Physicals are based on rubber only (no insert).

This construction includes one 10.8 oz (per sq yd) cotton ply for each 1/16" thickness:

1/16" = 1 ply; 1/8" = 2 ply; 3/16" = 3 ply; 1/4" = 4 ply

## Application-Specific Questions?



With 114+ years of experience and thousands of applications serviced, our team is well equipped to answer any rubber related questions you may have. Ask us today!





 [warco.com](http://warco.com)  714-532-3355

 [sales@warco.com](mailto:sales@warco.com)

visit us at [warco.com](http://warco.com)

## Butyl

Our Butyl products are impermeable to air and used in many applications requiring airtight rubber. Our Butyl products have outstanding resistance to gases, vapors, heat aging, oxygen, ozone, sunlight, abrasion and tearing. They also exhibit excellent resistance to alkalis and acids and are good for electrical insulation. Made in the USA.

-  Excellent Abrasion & Tearing Resistance
-  Outstanding Resistance to Gases & Vapors
-  Excellent Outdoor Resistances (Heat Aging, Ozone, Oxygen, Sunlight)
-  Impermeable to Air

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
40 040T0083	1/32 - 1/4	36, 48	1015	400	-40°F to +180°F	2.09 lb	ASTM D 2000 M1AA 407
50 050T0055	1/32 - 1/4	36, 48	1100	450	-40°F to +180°F	2.20 lb	ASTM D 2000 M1AA 507
60 060T0056	1/32 - 1/4	36, 48	1015	300	-40°F to +180°F	2.24 lb	ASTM D 2000 M1AA 607
70 070T0080	1/32 - 1/4	36, 48	1015	200	-40°F to +180°F	2.30 lb	ASTM D 2000 M1AA 707

## CSM (CSPE/Hypalon)

Our CSM (Chlorosulfonated Polyethelene (CSPE) or Hypalon) sheet rubber products exhibit a variety of unique features such as great resistance to ozone/sunlight, excellent abrasion resistance, and good resistance to alkalis and acids. Made in the USA.

-  Excellent Abrasion Resistance
-  Good Resistance to Alkalis and Acids
-  Resistant to Ozone/Sunlight

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile typical psi	Ultimate Elongation typical %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
50	1/32 - 1/4	36, 48	1100	350	-20°F to +220°F	2.54 lb	Good resistance to alkalis and acids
60 060H0098	1/32 - 1/4	36, 48	1500	350	-20°F to +220°F	2.61 lb	Good resistance to alkalis and acids

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## Hydrin

Hydrin, also known as polyepichlorohydrin, is a robust rubber polymer valued for its heat, oil, and chemical resistance.

Widely utilized in automotive seals, and various industrial settings, it maintains flexibility and durability even in challenging environments. Its versatility and reliability make it a preferred choice for applications requiring resilience and longevity.



Excellent Oil & Fuel Resistance



Good Electrical Insulation



Good Low-Temperature Flexibility



Flame Retardant Properties

Durometer Hardness Shore A ± 5	Tensile typical psi	Ultimate Elongation typical %	Temperature Range
70 070D0014	1800	600	-40°C to +125°C
75 075D0019	850	600	-40°C to +125°C

## HNBR

Hydrogenated nitrile butadiene rubber (HNBR) is a high-performance elastomer known for its exceptional resistance to heat, oil, and chemicals.

Its hydrogenation process enhances its stability and durability, making it suitable for demanding applications in automotive, aerospace, and oil industries.



Strong Wear Performance



Superior Chemical Resistance



Weather & UV Resistant



High-Temperature Resistance

Durometer Hardness Shore A ± 5	Tensile min psi	Ultimate Elongation min %	Temperature Range
60 060P1133	2400	600	-30°C to +150°C
70 070P1156	975	530	---
80 080P1151	1780	430	-30°C to +150°C
90 090P1191	3495	290	-30°C to +150°C

## Fluorosilicone

Fluorosilicone is a specialized elastomer renowned for its unique combination of fluorocarbon and silicone properties.

This hybrid material offers excellent resistance to extreme temperatures, chemicals, and fuels, making it ideal for sealing applications in aerospace, automotive, and other industries.



Excellent Heat Resistance



High Tensile Strength



Low Gas Permeability

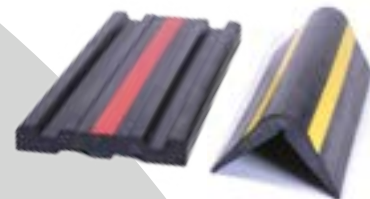


Excellent Weather Resistance

Durometer Hardness Shore A ± 5	Tensile typical psi	Ultimate Elongation typical %	Specifications
50 050S0725	1250	490	MIL-R-25988 Type II (Class 2-50)
60 060S0802	1300	400	MIL-R-25988 Type II Class 1-Grade 60 AMS 3325 FK606
70 0770S1002	1220	250	MIL-R-25988 Type I Class 1 Grade 70

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# REBOUNDS®



ENGINEERED RUBBER BUMPERS

## Made to Order

WARCO is equipped to provide the material needed to meet your requirements & specifications.

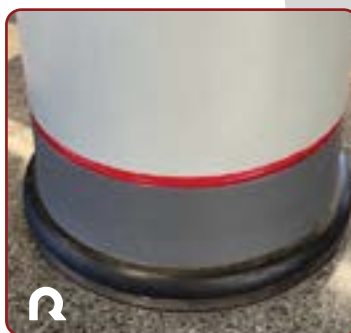
Create your profile, specify your length, and add your own branding, colors & marking.

## Rebounds in Action

- Building & Wall Protection
- Vehicle Preservation
- Dock & Marine Applications
- Gymnasiums & Sports Facilities
- Playground Equipment
- Industrial Equipment
- Electrical Enclosures
- Medical & Laboratory Machinery
- Parking Structures
- Dam & Water Seal

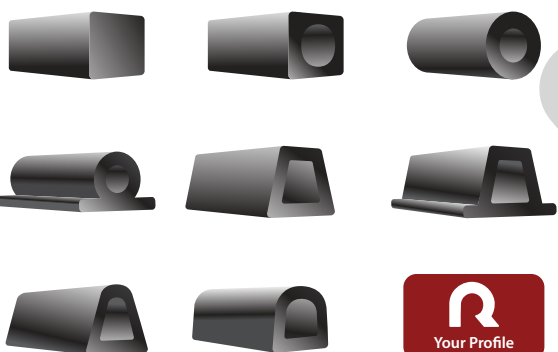
## Description

Rebounds® are the ultimate solution to **eliminate costly and unsightly damage** to equipment, vehicles, and structures. Our rubber bumpers are designed for indoor and outdoor protection, providing the perfect resilience to **absorb pressure and impact shock**.



## Typical Profiles

We recommend using these profiles and shapes as a starting point for your application.



## Manufacturing Capabilities

Design your Rebounds® to withstand a variety of chemicals, oils, gas, fuels, weather the elements, and much more. Formulated to meet your required durometer, tensile, elongation, weight & temperature values.

### Polymers

EPDM | SBR | Neoprene | Viton | Butyl | Natural

### Custom Options

Non-Marking | Installation Gaps | Color Striping | Corner Guard | Custom Packaging | Much More



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# Expansion Joints & Pavements Seals

Rubber Expansion joints are used in various construction applications to improve stability of cement structures. Expansion Joints absorb shock and compression/expansion of concrete initiated by natural forces including temperature changes, high winds and tectonic shifts.

### Polymers Available

- + EPDM
- + Neoprene - Good Oil Resistance
- + Natural Rubber - Good Resilience
- + SBR
- + Viton
- + Butyl

### Manufacturing Capabilities

- + One-time speical order or high-volume runs
- + Width: Up to 12"
- + Custom profiles
- + Advanced microwave extruders capable of curing continuous lengths of rubber extrusions.
- + A 50 ft autoclave produces straight lengths up to 50 ft
- + Match custom colors for your application

### Sample Applications



# Rubber Thresholds

WARCO Rubber Thresholds are manufactured from a tough, durable compound that provides long wear in high foot traffic areas. Rubber thresholds serve many purposes in construction by creating a seal between the flooring and the doors.

It is ideal for use in homes and garages to prevent external forces entry. They are often used in hotel rooms to inhibit fire propagation.

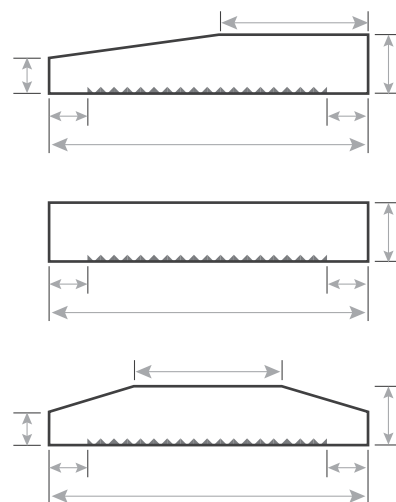
### Colors & Top Surfaces

- + Black / smooth top surface.
- + Customized colors and top surface available.

### Installation & Maintaince

- + Easily cleaned and maintained.
- + Tough stains may be removed with isopropyl alcohol.

### Thresholds Profiles Examples:



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## Utility Tarp Straps



Single piece molded construction ensures exceptional strength and stretch resiliency. The special EPDM compound used in the construction of WARCO Utility Straps is suited for high oxidation and weather resistance without cracking. An assortment of lengths including 6 in, 10 in, 15 in, 21 in, 31 in are available.

## Rubber Waterstop

Rubber Waterstop has been used extensively on projects throughout the United States and the world. Beginning with projects designed to meet the U.S. Army Corps. of Engineers' and the U.S. Bureau of Reclamation's specifications, Rubber Waterstop usage has expanded to all types of concrete structures for the purpose of keeping liquids in or out. SBR Rubber is used primarily for water containment, while Neoprene Rubber is used generally for projects involving sewage, water treatment, and chemical environments. Waterstops are also available in other polymers such as EPDM, Nitrile, Silicone, and Natural Rubber. WARCO maintain Waterstop compounds that meet the U.S. Army Corps of Engineers' CRD-C-513-71 specification and Caltrans 51-2.04 specification. Other compounds can be provided to meet other national and international specifications in accordance with project requirements. Non-specification commercial grade Rubber Waterstop is also available. Please contact us for details.

## Physical Properties Chart of Various Polymers

	ASTM Test Methods	SBR (Styrene Butadien)	Natural Rubber	High Tensile Neoprene*
Tensile Strength PSI (min)	D412	3000	3500	2500
Tensile Strength @ 300% Modulus (PSI min)	D412	1150	1450	1150
Ultimate Elongation, (% min)	D412	450	500	450
Durometer, Shore A (+/- 5)	D2240	65	65	65
Water Absorption, 2 Days at 70C % Weight Change (% max)	D471	5	5	5
Compression Set, 22 hrs. @ 70C % of original deflection (max)	D395 (Method B)	30	30	40
Accelerated Aging, 96 hrs. @70C				
% of Tensile Strength before aging (min)	D573	80	80	80
% of Elongation before aging (min)	D573	80	80	80
Ozone Resistance, 7 Days at 50 PPHM @ 38C, 20 % Elongation	D1149	no cracks	no cracks	no cracks

\*Provides Maximum Resistance to Ozone, Sewage, Oil, and Solvents

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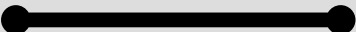


# Caltrans Strip Waterstop

Finish: Smooth Color: Black

Durometer Hardness Shore A ± 5	Thickness inches	Width inches	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Estimated Weight Per Foot (1/8" x 36")	Specifications
55 055E0507	1/8 thru 1/2	36, 48	2000	300	-40°F to +220°F	2.56 lb	Caltrans 51-2.04 Waterstops

## Waterstop Extruded Profile Chart







The profiles below are normally provided in SBR and Neoprene compounds as required. Waterstop is usually provided in 50 ft. lengths, but can be manufactured in longer and shorter lengths to minimize field splicing. Special profiles and compounds can be provided to meet specific project requirements. WARCO Rubber Waterstop is also available in non-spec commercial grade.

Profiles	Normal Size (Width x Thickness x Bulb O.D.)	Polymer	Weight Per 100 Feet
	<b>Dumbbell Type</b> 6" x 3/8" x 3/4" end bulbs 152.4mm x 9.5mm x 19mm end bulbs	Neoprene	160 lb
	<b>Dumbbell Type</b> 9" x 3/8" x 3/4" end bulbs 228.6mm x 9.5mm x 19mm end bulbs	Neoprene	230 lb
	<b>Center Bulb Type</b> 6" x 1/4" x 5/8" end bulbs (1 1/8" center bulb) 152.4mm x 6.3mm x 15.9mm end bulbs (28.6mm center bulb)	Neoprene	125 lb
	<b>Center Bulb Type</b> 9" x 3/8" x 1" end bulbs (1 1/2" center bulb) 228.6mm x 9.5mm x 25.4mm end bulbs (38mm center bulb)	Neoprene	300 lb
		SBR	130 lb
		SBR	190 lb
		SBR	105 lb
		SBR	250 lb

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# Waterstop Molded Intersections

Utilize the Molded Waterstop Intersections below in conjunction with WARCO's Extruded Waterstop profiles above to create custom systems that fit a multitude of applications.

TYPE	●————●		●————○————●	
	6"	9"	6"	9"
Union 	C 6" DBU	C 9" DBU	C 6" DBCBU	C 9" DBCBU
Flat Cross 	C 6" DBFC	C 9" DBFC	C 6" DBCBFC	C 9" DBCBFC
Flat Tee 	C 6" DBFT	C 9" DBFT	C 6" DBCBFT	C 9" DBCBFT
Flat Ell 	C 6" DBFE	C 9" DBFE	C 6" DBCBFE	C 9" DBCBFE
Vertical Tee 	C 6" DBVT	C 9" DBVT	C 6" DBCBVT	C 9" DBCBVT
Vertical Ell 	C 6" DBVE	C 9" DBVE	C 6" DBCBVE	C 9" DBCBVE

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## General Purpose Grade TPE - Black

A family of both soft and hard, black, versatile thermoplastic. This material combines good physical properties and chemical resistance for use in a wide range of applications. Specified for its performance properties in a variety of industries: major appliances, caster wheels, mass transit, safety & protection, marine and industrial machinery.

Finish: **Smooth** Color: **Black** Trim: **Trimmed**

Durometer Hardness Shore ± 5	Durometer Type	Thickness inches	Width inches	Tensile* psi	Ultimate Elongation* %	Temperature Range	Estimated Weight Per Foot (1/8" x 24")	Specifications
55 101M0055	A	0.02 thru 0.25	24	640	330	-50°F to +275°F	1.27 lb	MSAR20A
64 101M0064	A	0.02 thru 0.25	24	1000	440	-50°F to +275°F	1.27 lb	---
73 101M0073	A	0.02 thru 0.25	24	1200	375	-50°F to +275°F	1.27 lb	---
80 101M0080	A	0.02 thru 0.25	24	1600	450	-50°F to +275°F	1.27 lb	---
87 101M0081	A	0.02 thru 0.25	24	2300	550	-50°F to +275°F	1.27 lb	---
40 103M0040	D	0.02 thru 0.25	24	2750	600	-50°F to +275°F	1.27 lb	---
50 103M0050	D	0.02 thru 0.25	24	4000	600	-50°F to +275°F	1.27 lb	---

\*Typical Values

## General Purpose Grade TPE - Neutral

A family of soft, as well as hard, colorable, versatile thermoplastic. This material combines good physical properties and chemical resistance for use in a wide range of applications.

Finish: **Smooth** Color: **Neutral** Trim: **Trimmed**

Durometer Hardness Shore ± 5	Durometer Type	Thickness inches	Width inches	Tensile* psi	Ultimate Elongation* %	Temperature Range	Estimated Weight Per Foot (1/8" x 24")	Specifications DaimlerChrysler, Ford Worldwide, General Motors
55 201M0055	A	0.02 thru 0.25	24	640	330	-50°F to +275°F	1.27 lb	---
64 201M0064	A	0.02 thru 0.25	24	1000	440	-50°F to +275°F	1.27 lb	MSAR20B, WSD-M2D379-A1, GMP.E/P.002
73 201M0073	A	0.02 thru 0.25	24	1200	375	-50°F to +275°F	1.27 lb	MSAR20C, WSD-M2D380-A1, GMP.E/P.003
80 201M0080	A	0.02 thru 0.25	24	1600	450	-50°F to +275°F	1.27 lb	MSAR20D, WSD-M2D381-A1, GMP.E/P.004
87 201M0087	A	0.02 thru 0.25	24	2300	550	-50°F to +275°F	1.27 lb	MSAR20E, WSD-M2D382-A1, GMP.E/P.005
40 203M0040	D	0.02 thru 0.25	24	2750	600	-50°F to +275°F	1.27 lb	MSAR30A, WSD-M2D441-A, GMP.E/P.006
50 203M0050	D	0.02 thru 0.25	24	4000	600	-50°F to +275°F	1.27 lb	MSAR30B, WSD-M2D712-A1, GMP.E/P.007

\*Typical Values

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## Flame Retardant Grade TPE

A hard, colorable, flame retardant material. It exhibits good fluid resistance and contains non-ether brominated flame retardants (non-furan emitting). It does not contain added antioxidants or metal deactivators.

Finish: **Smooth** Color: **Neutral** Trim: **Trimmed**

Durometer Hardness Shore ± 5	Durometer Type	Thickness inches	Width inches	Tensile* psi	Ultimate Elongation* %	Temperature Range	Estimated Weight Per Foot (1/8" x 24")	Specifications
80 251M0080	A	0.02 thru 0.25	24	1050	410	-50°F to +275°F	1.27 lb	MSAR40A
85 251M0085	A	0.02 thru 0.25	24	1480	445	-50°F to +275°F	1.27 lb	MSAR40B
92 251M0092	A	0.02 thru 0.25	24	2020	530	-50°F to +275°F	1.27 lb	---
36 253M0036	D	0.02 thru 0.25	24	1700	490	-50°F to +275°F	1.27 lb	---
50 253M0050	D	0.02 thru 0.25	24	3720	660	-50°F to +275°F	1.27 lb	---

\*Typical Values

## FDA Approved Grade TPE - Black

TPEs (thermoplastic elastomers) have the properties and performance of rubber, but are processed like plastic. It has excellent clarity & superior colorability, and very good heat resistance. It was designed for applications where FDA compliance, clarity & enhanced heat resistance are required. Safe to use for repeated food exposure.

Finish: **Smooth** Color: **Black** Trim: **Trimmed**

Durometer Hardness Shore ± 5	Durometer Type	Thickness inches	Width inches	Tensile* psi	Ultimate Elongation* %	Temperature Range	Estimated Weight Per Foot (1/8" x 24")	Specifications
55 171M0055	A	0.02 thru 0.25	24	640	330	-50°F to +275°F	1.27 lb	FDA approved ingredients per 21 CFR 177.2600
64 171M0064	A	0.02 thru 0.25	24	1000	440	-50°F to +275°F	1.27 lb	
73 171M0073	A	0.02 thru 0.25	24	1200	460	-50°F to +275°F	1.27 lb	

\*Typical Values

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## FDA Approved Grade TPE - Neutral

TPEs (thermoplastic elastomers) have the properties and performance of rubber, but are processed like plastic. It has excellent clarity & superior colorability, and very good heat resistance. It was designed for applications where FDA compliance, clarity & enhanced heat resistance are required. Safe to use for repeated food exposure.

Finish: **Smooth** Color: **Neutral** Trim: **Trimmed**

Durometer Hardness Shore ± 5	Durometer Type	Thickness inches	Width inches	Tensile* psi	Ultimate Elongation* %	Temperature Range	Estimated Weight Per Foot (1/8" x 24")	Specifications
55 271M0055	A	0.02 thru 0.25	24	640	330	-50°F to +275°F	1.27 lb	FDA approved ingredients per 21 CFR 177.2600
64 271M0064	A	0.02 thru 0.25	24	1000	440	-50°F to +275°F	1.27 lb	
73 271M0073	A	0.02 thru 0.25	24	1200	460	-50°F to +275°F	1.27 lb	
80 271M0080	A	0.02 thru 0.25	24	1600	500	-50°F to +275°F	1.27 lb	
87 271M0087	A	0.02 thru 0.25	24	2300	500	-50°F to +275°F	1.27 lb	
40 273M0040	D	0.02 thru 0.25	24	2750	550	-50°F to +275°F	1.27 lb	
50 273M0050	D	0.02 thru 0.25	24	4000	550	-50°F to +275°F	1.27 lb	

\*Typical Values

visit us at [warco.com](http://warco.com)

**WARCO®****STANDARDS TERMS AND CONDITIONS OF SALE**

Industrial Rubber Products

WARCO products are sold commercially for multiple applications as determined by the end-user. Information on certain physical properties of our various styles and grades is provided in our product literature, but such information is unrelated to any particular use or application. Determination of the suitability of the goods for the uses and applications contemplated by Buyer and others shall be the sole responsibility of the Buyer or user. Consultation with qualified engineers and testing laboratories is recommended. WARCO does not recommend any of its products for any particular use or application. The purchaser or user shall assume full responsibility for the adequacy and suitability for the intended use. Rubber products may fail as a result of temperature variances, excessive pressures, abrasion or damaging substances. The wear life of rubber products is limited by the circumstances and conditions of use. Rubber materials should be inspected regularly and should be replaced as appropriate for operational and safety requirements and the prevention of injury or damage to persons and property.

Our rubber products, except where indicated, are a proprietary blend of various polymers formulated to meet stated physicals and specifications. The named polymer is not necessarily the polymer representing the highest percentage of the polymer blend. The various specification call outs are a valuable guide in selecting the type and grade of sheet rubber for a particular application. In any application, the customer should evaluate the performance requirements and conditions that will affect the working life of the rubber product. Field should be performed before the type of rubber is selected. If the customer's quality assurance incorporates the testing of rubber material, the test criteria should include the physical property call outs of the specifications that are most critical to its application. **Polymer type alone may not be adequate for the selecting of the rubber that is best suited for a specific application.**

ASTM basic requirements for physical properties are based on values obtained from standard laboratory test specimens prepared and tested in accordance with the applicable ASTM test methods. Test results from specimens prepared from finished products may not duplicate values obtained from standard test specimens. Per ASTM D2000, Section 7.1, Buyer agrees that when standard test specimens are cut from finished parts in accordance with Practice D 3183, a deviation to the extent of 10% on tensile strength and elongation values is permissible.

Unless stated otherwise, products are manufactured to meet standard RMA Commercial guidelines. Per RMA, roll goods may contain multiple pieces.

**1. PAYMENTS:** Seller may require full or partial payment in advance at any time if in its sole judgment, the financial condition of the Buyer does not justify the terms of payment specified herein. A charge of 1-1/2 percent (1-1/2%) per month (or at the highest rate permitted by law) shall be payable on all overdue accounts. Orders will not be processed until payment terms are approved by Seller's Credit Department.

**2. PRICES SUBJECT TO CHANGE:** Seller may change any price, shipment or freight term in effect at any time and from time to time by giving Buyer at least fifteen (15) days written notice thereof. Buyer's failure to give Seller a written objection to any such change within ten (10) days after receipt of notice shall constitute acceptance of such change. Where objection is made, Seller shall advise Buyer within ten (10) days thereafter whether Seller will (a) continue to deliver at the price or on the terms in effect prior to the announced change, or (b) cancel this contract. Any cancellation shall be effective upon Buyer's receipt of Seller's notice and shall be without further obligation of either party to the other except to perform or pay all obligations accrued through date of cancellation. Provided however, that in the case of non-stock items ordered specifically for Buyer's use, Seller reserves the right to increase prices to cover the increases in its costs arising from increases in the cost of materials or labor rates which become effective between the date of this acknowledgment and the date of shipment. In such event, this Agreement shall remain in effect at the price adjusted to reflect said increases.

**3. MINIMUM PURCHASE:** Stock sheet Item = One roll minimum.  
Non-stock sheet and Custom items = Please request quote.

**4. TAXES:** Buyer shall reimburse Seller for all taxes, excises or other charges which Seller may be required to pay to any governmental entity (national, state or local) upon the sales, production or transportation of the goods sold hereunder.

**5. DELIVERY:** Unless otherwise specified herein, goods will be delivered F.O.B. point of shipment. Seller will determine the point of origin of shipment, the method of transportation, and the routing of shipment. Partial deliveries shall be accepted by the Buyer and paid for at the prices and terms hereunder. Seller does not guarantee any delivery or completion date. In the event of delay in delivery of goods, Seller shall not be liable or responsible for any loss, damage, expense or charge of any kind, direct or indirect, suffered or incurred by Buyer as a result of such delay.

**6. TITLE AND RISK OF LOSS:** Title and risk of loss in the goods shall pass to Buyer upon Seller's delivery to carrier at the shipping point, notwithstanding the terms of shipment specified herein.

**7. WARRANTIES AND DISCLAIMERS:** Goods furnished under this Agreement shall conform to the description herein. All first quality goods are warranted to be free from defects in material and workmanship at the time of shipment. Seller shall convey good title to buyer. Seller further warrants that the goods sold hereunder do not infringe any valid United States patent, but Seller does not warrant, however, that the use of the goods or products made therefrom, either alone or in conjunction with other materials, will not infringe any valid United States patent. THE WARRANTIES SET FORTH IN THIS PROVISION ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE. SELLER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. ALL PRODUCTS ARE SOLD AND WARRANTED ONLY PURSUANT TO OUR PUBLISHED TERMS AND CONDITIONS OF SALE. WE ARE NOT RESPONSIBLE TO THE USER FOR ANY CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES RESULTING FROM PRODUCT USE OR PROCESSING.

**8. CLAIM PERIOD AND REMEDIES:** Prompt written notice shall be given to Seller of any claim of failure of goods to conform to the warranties hereunder. Should any failure to conform to these warranties appear under normal and proper use within the period of one (1) year from the date of shipment to the Buyer, Seller shall correct such nonconformity, at its option, by repair or replacement of the defective goods, or by the refund of the purchase price thereof with due allowance made for the service rendered by the goods returned. In no event shall Buyer commence any action under this Agreement later than one year after receipt of the goods. The remedies provided above are the Buyer's sole remedies for any failure of Seller to comply with its obligations. Correction of any nonconformity by repair or replacement or by refund of the purchase price of the nonconforming goods (less allowance for use) shall constitute fulfillment of all obligations of Seller with respect thereto, whether the claims of Buyer are based in

contract, or tort (including negligence), or otherwise.

**9. LIMITATION OF LIABILITY:** Seller shall not be liable in contract, in tort (including negligence), or otherwise for damage or loss of other property, loss of profits or revenue, loss of use of property or equipment, claims of customers of the Buyer, or for any special, indirect, incidental, or consequential damages whatsoever. Under no circumstances shall Seller's liability exceed the purchase price of the goods in respect of which damages are claimed.

**10. PRODUCTS SUITABILITY AND LENGTH OF SERVICE:** Determination of the suitability of the goods for the uses and applications contemplated by Buyer and others shall be the sole responsibility of the Buyer or user. No guaranty is given with respect to length of service on any particular application. Suggestions or recommendations made by Seller in its product literature concerning uses or applications of the goods are believed to be reliable, but Seller makes no warranty or guaranty of results to be obtained since the conditions of the use and application by Buyer and others are beyond Seller's control.

**11. FORCE MAJEURE:** Seller shall not be liable for failure to perform or for delay in performance due to fire, flood, strike or other labor difficulty (Seller shall not be required to settle any labor matter against its own best judgment), act of God, act of any government authority, acts or omissions of the Buyer, riot, embargo, explosion, accident, breakdown of machinery or equipment, shortage of or inability to obtain fuel, power, raw materials, equipment, transportation of the product at usual prices or usual sources, or due to any other cause beyond its reasonable control. Quantities so affected by such circumstances may be eliminated without liability, but this Agreement shall otherwise remain unaffected.

**12. RETURNED GOODS:** No goods may be returned without Seller's prior written authorization. Each request for exchange or return shall describe the condition of the goods and the reasons for the requested return or exchange. If the Seller agrees to accept a return or exchange, the Buyer shall pay return transportation cost and a restocking charge; the restocking charge will be determined based upon the Seller's ability to resell the exchanged or returned material and the reason for the return.

**13. QUANTITY VARIANCE:** Due to manufacturing variances, the quantity of goods delivered will be within 10%, more or less, of the quantity specified and shall be charged at the unit price herein.

**14. ENTIRE AGREEMENT:** This Agreement constitutes the complete and final Agreement of sale and purchase of the goods specified herein and supersedes all prior contracts and discussions. No modification hereof shall be effected by the use of purchase order, acknowledgment, acceptance, or other forms at variance with or in addition to the terms and conditions contained herein. No modification shall be effected in any manner other than in writing and signed by the party claimed to be bound thereby.

**15. GOVERNING LAW:** This contract shall be governed by and construed under the laws of the State of California.

**16. TRANSPORTATION POLICY:** All deliveries will be made F.O.B. Point of Shipment. Freight calculated and billed on all Prepay & Bill orders. Applicable surcharges and/or accessorial charges are not covered and will be billed accordingly. All price page and catalog weights are approximate and actual shipping weights may vary from these listings. In case of dispute, actual shipping weights will apply. **Origin, Method of Shipping and Routing:** Seller will determine the point of origin of shipment, the method of transportation and the routing of shipment. Purchasers requiring shipment by a method or routing other than that which will be billed any excess or premium in transportation charges. If Seller elects to ship by other than common carrier, the full transportation charges will be prepaid and any freight charges billable will be calculated and billed. **Purchaser Pick Up:** No allowance will be made in lieu of transportation if the buyer accepts shipment at the factory or the warehouse or freight station. Transportation charges will not be deducted from the selling price. Pick up of order must be made within three business days.

**17. CONCEALED DAMAGE:** Seller will not participate in any settlement of claims for concealed damage. Upon receipt of any shipment, Buyer must unpack immediately and, if damage is discovered, must:

- Not move the product from the point of examination
- Retain shipping container and packing material
- Notify the carrier's agent to make an inspection and confirm in writing
- Send Seller a copy of the carrier's inspection report
- Make a claim for damage with the carrier
- Recovery for any damage to merchandise incurred during shipping shall be the sole responsibility of Buyer. Any such damage shall not defeat or otherwise affect the obligation of Buyer to pay all amounts due Seller with respect to the damaged goods.

**18. CANCELLATION:** Requests for cancellation or modification of orders must be submitted in writing and received by Seller at least 2 days prior to shipment. Any cancellation or modification will be effective only when acknowledged in writing by Seller and can be made subject to status of production of goods. Orders for merchandise produced specifically for a customer cannot be canceled once goods are produced.

**19. ACCEPTANCE OF ORDERS:** Issuance of any Catalog or Price List does not constitute an offer for the sale of any products described therein. All orders are subject to the acceptance of Seller. All orders accepted by Seller are accepted on the understanding that Buyer, by placing the order, has agreed to these Standard Terms & Conditions of Sale and that they are therefore part of the Buyer's order.

**20. ATTORNEYS' FEES AND VENUE:** In any action to collect amounts due Seller with respect to sales made to Buyer, arising out of or relating to this Agreement or any such sales, or in which a party seeks an interpretation of this Agreement or asserts it as a defense, the prevailing party shall be entitled to recover attorneys' fees in an amount determined by the Court to be reasonable, as well as such party's costs of suit. All notices, requests, claims and other communications by Buyer with respect to this Agreement or sales hereunder shall be directed to Seller at its executive offices at 1337 Braden Court, Orange, California 92868 (714) 532-3355. Any action brought by Buyer against Seller must be brought in a state or federal court located in Orange County, California, and any action brought in any other location shall, upon appropriate motion by Seller, be dismissed.

Updated July 12, 2022

TERMS AND CONDITIONS OF SALE ARE SUBJECT TO CHANGE WITHOUT NOTICE. VISIT [www.warco.com/terms](http://www.warco.com/terms) FOR THE MOST CURRENT TERMS AND CONDITIONS.

TO VIEW THE MOST CURRENT PRIVACY POLICY IN RELATION TO OUR CUSTOMER INTERACTIONS, PLEASE VISIT [warco.com/privacy](http://warco.com/privacy)

WEST AMERICAN RUBBER COMPANY, LLC | 1337 BRADEN COURT, ORANGE, CALIFORNIA 92868 | TEL: 714-532-3355 | [sales@warco.com](mailto:sales@warco.com)



For more information  
please visit us at [warco.com](http://warco.com)



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**Where Tradition Meets Innovation™**

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