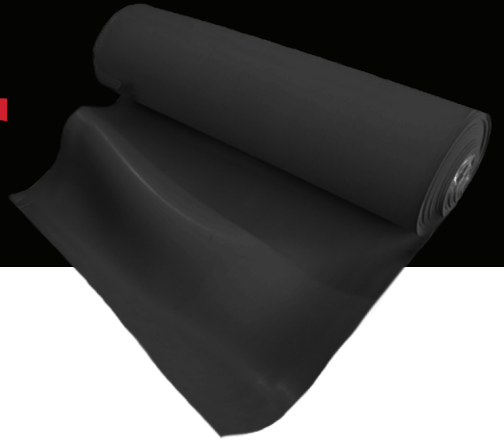


Engineered **Sheet Rubber**



Visit us online: GRTrubber.com

GRT offers the most extensive line of sheet rubber in the industry. Our top quality products are made with pride at our state-of-the-art facility in Paragould, Arkansas.

GRT's success is founded on experience, innovation, advanced technology and dedication to quality.

We've been a leader in the rubber industry for more than 120 years and we continue to offer new solutions to help meet the changing requirements of our customers. By partnering with our customers, we can create unique products which deliver solutions to the rubber industry.

GRT also maintains one of the industry's most advanced technical labs, where we test the physical, chemical and component properties of materials and finished products. Our computer controlled manufacturing equipment ensures the tightest possible gauge tolerances and highest quality control. That technology, combined with extensive employee training and experience, means our quality is guaranteed.

Our experienced engineering and field support staff are available to help you decide which products are best for your job requirements. And we have a wide range of made-to-order capabilities so we can customize a product to meet your special needs.

Call GRT for unsurpassed quality and service, including:

- Everything in rubber sheeting including: SBR, natural, nitrile, neoprene, EPDM, butyl, CPE, and VITON®. Available in custom made colors and finishes, with or without fiber reinforcement.
- Complete line of slit-to-width skirtboard, chute lining and protecting products for the construction, aggregate and conveyor belting markets.

- Complete line of cushioning products for road and bridge construction, building construction and vibration isolation markets.
- Gauge thicknesses from 1/32" to 2" (0.8 mm to 50.8 mm).
- 1/32" to 1/4" (0.8 mm to 6.4 mm) thicknesses available up to 72" (1828 mm) in width.
- 1/4" to 1/2" (6.4 mm to 12.7 mm) thicknesses available up to 72" (1828 mm) in width.
- 1/2" to 2" (12.7 mm to 76.2 mm) thicknesses available up to 48" (1219 mm) in width.
- Heavy gauge over 3/8" (9.5 mm) available up to 50' (15.24 m) lengths.

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Safety Information

READ THIS PAGE BEFORE USING ANY OF THE INFORMATION IN THIS CATALOG

This catalog is intended as a guide to selecting the proper sheet rubber for the applications listed herein. It contains important cautions, warnings, guidelines and directions for the safe and proper use of GRT sheet rubber. All these directions and footnotes should be read and understood before specifying or using any of these sheet rubber products. Symbols, boxes, boldface type, etc. are used to call attention to these instructions. Be sure to read and understand them before proceeding further with this information.

- Certain sheet rubber applications are dangerous, such as those involving high temperatures, fuels and flammables, high pressures or chemical exposure.
- An in-service failure of sheet rubber can result in serious bodily injury or property damage. Do not use the sheet rubber products above the temperatures recommended by the manufacturer.
- All operators must be thoroughly trained to inspect for leakage and other signs of gasket wear.
- Failure or misapplication of a seal, gasket or sheet rubber could cause the release of poisonous, corrosive or flammable material, resulting in serious bodily injury, such as burns to the skin, eyes or respiratory system through coming in contact with the escaping fluid vapor.

- Personnel located in areas close to systems containing these dangerous materials must be properly equipped with protective clothing, facial protection and emergency breathing equipment.
- **SERVICE LIFE:** The service life of sheet rubber will decrease as the application approaches the upper temperature limit. The service life of sheet rubber products in high temperature applications depends on the specific details of the application, including chemicals and/or oils in contact with the rubber.



CALL GRT AT (800) 643.0134 OR FAX (800) 325.0506 FOR ADDITIONAL APPLICATION GUIDELINES AND CHEMICAL COMPATIBILITY INFORMATION.



NSF-ISR

Registered to ISO 9001

Notes

Product	Elastomer	Color	Durometer* (Shore A)	Typical Tensile* (minimum) psi (bar)	Specifications	Page No.
Bay State 22	NAT/SBR	Red	70-85	1,000 (700) 69 (48)	ASTM D-1330 Gr. I & II	5
Style 50	NAT/SBR	Red	70-85	800 (400) 55 (28)	ASTM D-1330 Gr. II	5
Style 135	Natural	Tan	35-45	3,400 (3,000) 235 (207)	ASTM D2000-AA-430	5,11
Style 563	EPDM	Black	55-65	1,700 (1,500) 117 (104)	ASTM D2000-3BA-615-B13-C12	5
Style 564	EPDM	Black	55-65	1,200 (1,000) 83 (69)	ASTM D2000-2BA-610-C12	5
Style 244	Blended CR/ NBR/SBR	Black	35-45	900 (800) 62 (55)	ASTM D2000-BC-408	6
Style 254	Blended CR/ NBR/SBR	Black	55-65	1,000 (800) 69 (55)	ASTM D2000-BC-508	6
Style 264	Blended CR/ NBR/SBR	Black	55-65	1,100 (800) 76 (55)	ASTM D2000-BC-608	6
Style 274	Blended CR/ NBR/SBR	Black	65-75	1,200 (1,000) 83 (69)	ASTM D2000-BC-710	6
Style 284	Blended CR/ NBR/SBR	Black	75-85	1,400 (1,000) 97 (69)	ASTM D2000-BC-810	6
Style 5240	Neoprene	Black	35-45	1,700 (1,500) 117 (104)	ASTM D2000-5BC-413-A14-B14-E034	7
Style 5260	Neoprene	Black	55-65	1,800 (1,500) 124 (104)	ASTM D2000-2BE-615-A14-B14-C12- E014-F17-Z1	7
Style 5280	Neoprene	Black	75-85	1,800 (1,500) 124 (104)	ASTM D2000-2BE-815-A14-B14-C12- E014-F17	7
Style 361	Nitrile	Black	55-65	2,000 (1,800) 138 (124)	ASTM D2000-BF-618	8
Style 363	Nitrile	Black	55-65	1,200 (1,000) 83 (69)	ASTM D2000-BF-610	8
Style 362	Nitrile	White	55-65	1,700 (1,500) 104 (83)	ASTM D-200-2BF-615-E034	8

* Figures are for rubber compound without fabric.

NOTE: Stock items appear in **BOLD** type. For items and sizes not listed, contact Customer Service at 800.643.0134.

NOTE: The chart on pages 3 and 4 lists the basic physical properties of each GRT sheet rubber style, making it easier to match your specifications and requirements to a GRT material.

Since each application is unique, when trying to match a sheet rubber to a specific application, various criteria should be considered including the list on page 17 under "Information Necessary for Custom Manufacturing".

Further information regarding the use of GRT sheet rubber is available by calling GRT Customer Service at 800.643.0134.

Product	Elastomer	Color	Durometer* (Shore A)	Typical Tensile* (minimum) psi (bar)	Specifications	Page No.
Diaphragm Style 3205, 3206, 3210	Neoprene	Black	65-75	1,500 (1,400) 104 (97)	ASTM D2000-BC-714	9
Multi-Ply 2103	SBR/NBR Polyester Fabric	Black	70-80	1,300 (1,000) 90 (69)	ASTM D2000-BC-810-Z1	10
Style 2102	SBR/NBR Polyester Fabric	Black	70-80	1,300 (1,000) 90 (69)	ASTM D2000-BC-810-Z1	10
Style 2264	Blended SBR/CR/ NBR Polyester Fabric	Black	55-65	1,100 (800) 76 (55)	ASTM D2000-BC-608	10
Super RINOHIDE™	SBR	Black	55-65	2,800 (2,500) 193 (173)	ASTM D2000-BA-625	11
Tan Gum Style 135	Natural	Tan	35-45	3,400 (3,000) 235 (207)	ASTM D2000-AA-430	11
Style 7164	SBR	Black	55-65	2,400 (2,000) 166 (138)	ASTM D2000-BA-620	11
Smooth Skirtboard	SBR	Black	55-65	1,000	ASTM D2000-AA-610	11
VIBLON™	Nitrile	Tan	-	N/A	Designed to meet MIL-C-822E specifications	12
Bearing Pads	Neoprene & Natural	Black	45-55	2,600 (2,250) 179 (155)	Designed to meet AASHTO specifications	13
Bearing Pads	Neoprene & Natural	Black	55-65	2,800 (2,250) 193 (155)	Designed to meet AASHTO specifications	13
Bearing Pads	Neoprene & Natural	Black	65-75	3,000 (2,250) 207 (155)	Designed to meet AASHTO specifications	13
Style 501 Branded	VITON	Black	70-80	1,300 (1,000) 90 (69)	ASTM D2000-2HK-710-B37-Z1	13
Style 505 Branded	CPE®	Black	65-75	2,000 (1,800) 138 (124)	ASTM D2000-BA-615	14
Style 509 Branded	Butyl	Black	55-65	1,800 (1,500) 124 (104)	ASTM D2000-BA-615	14
Style 9518 Branded	FKM	Black	70-80	1,000	ASTM D2000-2HK-710-B37-Z1	14

* Figures are for rubber compound without fabric.

VITON® is a registered trademark of DuPont Dow Elastomers.

NOTE: Stock items appear in **BOLD** type. For items and sizes not listed, contact Customer Service at 800.643.0134.

WARNING

Exposure to chemicals, fuels, oils or heat can affect the performance of sheet rubber and cause the product to lose its ability to maintain a seal, causing leakage or other failures which could result in property damage, serious injury or death. Since each application is unique, consult Customer Service at 800.643.0134 or fax 800.325.0506 for further information.

Non-Oil Resistant Sheet

Excellent general purpose gasket materials for air, hot and cold water, saturated steam and exterior service.

Bay State 22

A branded, smooth, rotocured finish. It is a blend of natural and SBR rubber, specially compounded to be quick-sealing, non-hardening and heat-resistant. It conforms easily to uneven flange surfaces.

- ASTM D 1330 Gr. I

Style 50

A cloth finish, drum cured sheet. It is an excellent, low-cost, flange gasket material.

- ASTM D 1 330 Gr. II

Style 135

A full floating, natural rubber. It resists most organic salts, ammonia, acids and alkalis. It is non-marking.

- ASTM D2000-AA-430

Style 563

An EPDM sheet that provides outstanding resistance to weathering, ozone and UV exposure. It provides excellent chemical resistance and dynamic properties.

- ASTM D2000-3BA-615-B13-C12

Style 564

Has the same general characteristics as Style #563, but it is a commercial quality sheet.

- ASTM D2000-2BA-610-C12



Product	Elastomer	Color	Durometer* (Shore A)	Typical Tensile* (minimum) psi (bar)	Finish	Ultimate Elongation (% min)	Approx. Wt. Lbs/Yd ² [kg/m ²] 1/16" [1.6mm]	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
Bay State 22 Branded	Natural/ SBR	Red	70-85	1,000 (700) 69 (48)	Smooth	200	4.7 [2.5]	up to 72 (1829)	1/8	-20°F to +180°F (-29°C to +82°C)
Style 50	Natural/ SBR	Red	70-85	800 (400) 55 (28)	Cloth Impression	150	5.0 [2.7]	36, 48 (914, 1219)	1/16 thru 1/4 (1.6 thru 6.4)	-20°F to +180°F (-29°C to +82°C)
Style 135	Natural	Tan	35-45	3,400 (3,000) 235 (207)	Smooth	600	2.9 [1.6]	36, 48 (914, 1219)	1/16 thru 1 (1.6 thru 25.4)	-20°F to +180°F (-29°C to +82°C)
Style 563	EPDM	Black	55-65	1,700 (1,500) 117 (104)	Smooth	400	3.3 [1.8]	36 (914)	MTO**	-40°F to +275°F (-40°C to +135°C)
Style 564	EPDM	Black	55-65	1,200 (1,000) 83 (69)	Smooth	350	3.6 [2.0]	36, 48 (914, 1219)	1/16 thru 1/2 (1.6 thru 12.7)	-20°F to +250°F (-29°C to +121°C)

**Made to Order

Commercial Grade Neoprene Sheet

These products are blends of neoprene, nitrile and SBR rubbers. They are moderately oil-resistant, for use as bumpers, pads and in sealing and general gasket applications.

Style 244

A soft, good quality, blended CR/NBR/SBR sheet.

- ASTM D2000-BC-408

Style 254

A medium soft, good quality, blended CR/NBR/SBR sheet.

- ASTM D2000-BC-508

Style 264

A medium hard, good quality, blended CR/NBR/SBR sheet.

- ASTM D2000-BC-608

Style 274

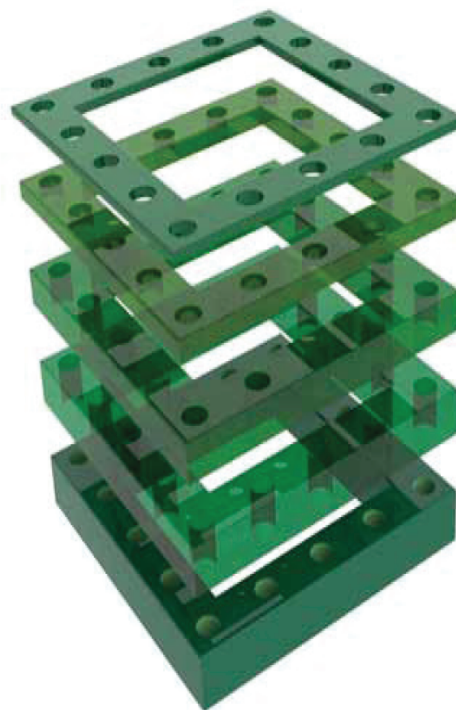
A hard, good quality, blended CR/NBR/SBR sheet.

- ASTM D2000-BC-710

Style 284

A hard, good quality, blended CR/NBR/SBR sheet.

- ASTM D2000-BC-810



Product	Elastomer	Color	Durometer* (Shore A)	Typical Tensile* (minimum) psi (bar)	Finish	Ultimate Elongation (% min)	Approx. Wt. Lbs/Yd ² [kg/m ²] 1/16" [1.6mm]	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
Style 244	Blended CR/NBR/SBR	Black	35-45	900 (800) 62 (55)	Smooth	350	3.7 [2.0]	up to 72 (1829)	1/16 thru 1 (1.6 thru 25.4)	-20°F to +190°F (-29°C to +88°C)
Style 254	Blended CR/NBR/SBR	Black	45-55	1,000 (800) 69 (55)	Smooth	300	4.0 [2.2]	up to 72 (1829)	1/16 thru 1 (1.6 thru 25.4)	-20°F to +190°F (-29°C to +88°C)
Style 264	Blended CR/NBR/SBR	Black	55-65	1,100 (800) 76 (55)	Smooth	300	3.9 [2.1]	up to 72 (1829)	1/32 thru 2 (0.8 thru 50.8)	-20°F to +190°F (-29°C to +88°C)
Style 274	Blended CR/NBR/SBR	Black	65-75	1,200 (1,000) 83 (69)	Smooth	200	4.0 [2.2]	up to 72 (1829)	1/16 thru 1 (1.6 thru 25.4)	-20°F to +190°F (-29°C to +88°C)
Style 284	Blended CR/NBR/SBR	Black	75-85	1,400 (1,000) 97 (69)	Smooth	200	4.1 [2.2]	up to 72 (1829)	1/16 thru 1 (1.6 thru 25.4)	-20°F to +190°F (-29°C to +88°C)

Neoprene Oil & Ozone Resistant Sheet

This blended neoprene sheet is used where good oil, petroleum, ozone and weathering resistance is needed. It is very popular due to the broad range of applications in which it may be used.

Style 5240

A soft, premium grade, neoprene sheet with good resistance to oil, weathering and ozone exposure.

- ASTM D2000-5BC-413-A14-B14-E034

Style 5260

A medium hard, premium grade, neoprene sheet with good resistance to oil, weathering and ozone exposure.

- ASTM D2000-2BE-615-A14-B14-C12-E014-F17-Z1

(Z1 Equals 300% Elongation)

Style 5280

A hard, premium grade, neoprene sheet with good resistance to oil, weathering and ozone exposure.

- ASTM D2000-2BE-815-A14-B14-C12-E014-F17



Product	Elastomer	Color	Durometer* (Shore A)	Typical Tensile* (minimum) psi (bar)	Finish	Ultimate Elongation (% min)	Approx. Wt. Lbs/Yd ² [kg/m ²] 1/16" [1.6mm]	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
Style 5240	Neoprene	Black	35-45	1,700 (1,500) 117 (104)	Smooth	500	3.9 [2.1]	36 (914)	MTO**	-40°F to +200°F (-40°C to +93°C)
Style 5260	Neoprene	Black	55-65	1,800 (1,500) 124 (104)	Smooth	300	4.0 [2.2]	36 (914)	1/16, 1/8, 1/4 (1.6, 3.2, 6.4)	-40°F to +200°F (-40°C to +93°C)
Style 5280	Neoprene	Black	75-85	1,800 (1,500) 124 (104)	Smooth	150	4.5 [2.4]	36 (914)	MTO**	-30°F to +250°F (-34°C to +121°C)

Nitrile sheet is primarily used for applications where resistance to oil, solvents and fuels is required. GRT offers several styles of nitrile sheet, each carrying different specifications.

Style 304

A premium grade Nitrile. Recommended for use in diesel and jet fuel applications.

- ASTM D2000-5BG-615-A14-B14-EO14-EO34-F17

Style 361

A high tensile strength Nitrile for a superior product application requiring improved physical properties such as abrasion resistance, tear strength and stretch.

- ASTM D2000-BF-618

Style 363

A good quality, oil resistant nitrile sheet.

- ASTM D2000-BF-610

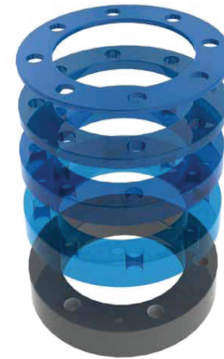
Food Grade Sheet

GRT Food Grade Sheet is manufactured from Food and Drug Administration approved ingredients. It is a superior, long-life sheet designed specifically for general gasketing, counter tops and skirting in all areas of food processing, pharmaceutical and cosmetics manufacturing. Approved by USDA for meat and poultry processing.

Style 362

A white nitrile sheet made from FDA approved ingredients per 21 CFR 177.2600. It also meets "3A Sanitary Standards for Multiple Use Rubber and Rubber Like Materials used as product contact surfaces in dairy equipment," Number 18 02, Class III and IV. It has good resistance to oily and greasy food products and abrasion. This sheet is non marking.

- ASTM D2000-2BF-615-E034



Product	Elastomer	Color	Durometer* (Shore A)	Typical Tensile* (minimum) psi (bar)	Finish	Ultimate Elongation (% min)	Approx. Wt. Lbs/Yd ² [kg/m ²] 1/16" [1.6mm]	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
Style 361	Nitrile	Black	55-65	2,000 (1,800) 138 (124)	Smooth	400	3.5 [1.9]	36 (914)	1/16, 1/8, 1/4 (1.6, 3.2, 6.4)	-30°F to +200°F (-34°C to +93°C)
Style 363	Nitrile	Black	55-65	1,200 (1,000) 83 (69)	Smooth	300	3.8 [2.1]	36, 48 (914, 1219)	1/16, 1/8, 1/4 (1.6, 3.2, 6.4)	-30°F to +200°F (-34°C to +93°C)
Style 362	Nitrile	White	55-65	1,700 (1,500) 117 (104)	Smooth	400	3.8 [2.1]	36, 48 (914, 1219)	1/16 thru 1/4 (1.6 thru 6.4)	-20°F to +200°F (-29°C to +93°C)
Style 304	Nitrile	Black	55-65	1,800 (1,500) 124(104)	Smooth	400	3.8 [2.1]	36, 48 (914, 1219)	1/16 thru 1/4 (1.6 thru 6.4)	-20°F to +200°F (-29°C to +93°C)

Neoprene Diaphragm Sheet

Each of these diaphragm sheets is manufactured with a high quality compound designed for long service. Each is reinforced with high quality, square woven duck to provide balanced structural strength over the entire area of the diaphragm. Recommended for control valves, regulators and pumps, they also make excellent weather strip materials.

Style 3205

A 7.5 oz./sq. yd. (254 g/sq. m), polyester fabric with neoprene covers. Good oil resistance. One ply of fabric per 1/16" (1.6 mm) thickness.

- ASTM D2000-BC-714

Style 3206

A 14 oz./sq. yd. (480 g/sq. m), cotton duck fabric with neoprene covers. Good oil resistance. One ply of fabric per 1/16" (1.6mm) thickness.

- ASTM D2000-BC-714

Style 3210

A 14 oz./sq. yd. (480 g/sq. m), strong nylon duck fabric with neoprene covers. Good oil resistance. One ply of fabric in 1/16" {1.6mm) through 3/16" (4.8mm) thickness. Two plies of fabric in 1/4" (6.4mm) thickness.

- ASTM D2000-BC-714



Mullen Burst Test Ratings for Fabric

Obtained using burst tester with 1.24 inch (31.5mm) diameter opening. Per ASTM D751

Product	1 Ply	2 Ply	3 Ply	4 Ply
Style 3205	370 psig (26 bar)	860 psig (59 bar)	1,000 psig (69+ bar)	1,000 psig (69+ bar)
Style 3206	315 psig (22 bar)	655 psig (45 bar)	950 psig (66 bar)	1,000 psig (69+ bar)
Style 3210	1,200+ psig (83+ bar)	-	-	-

Product	Elastomer	Color	Durometer (Shore A) **	Typical Tensile* (minimum) psi (bar)	Finish	Ultimate Elongation (% min)	Approx. Wt. Lbs/Yd ² [kg/m ²] 1/16" [1.6mm]	Wt. Fabric Oz./Yd ²	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
Style 3205	Neoprene	Black	65-75	1,500 (1,400) 104 (97)	Smooth	300	4.0 [2.2]	7.5 Polyester	56 (1422)	1/16 thru 1/4 (1.6 thru 6.4)	-20°F to +200°F (-29°C to +93°C)
Style 3206	Neoprene	Black	65-75	1,500 (1,400) 104 (97)	Smooth	300	3.5 [1.9]	14.0 Cotton	56 (1422)	1/16" thru 3/16" (1.6 thru 6.4)	-20°F to +200°F (-29°C to +93°C)
Style 3210	Neoprene	Black	65-75	1,500 (1,400) 104 (97)	Smooth	300	4.0 [2.2]	14.0 Nylon	56 (1422)	1/16" & 1/8" (1.6 thru 6.4)	-20°F to +200°F (-29°C to +93°C)

** Figures are for rubber compound without fabric.

GRT cloth-inserted materials are designed to add stability where mechanical fastening is necessary, and to reduce gasket creep where heavy flange loading is required. For low line pressure applications such as air, hot and cold water, saturated steam and low pressure steam.

Style 2102 C.I.

A smooth finish SBR/NBR sheet, constructed with polyester fabric. One ply of fabric in 1/16" (1.6 mm) through 1/8" (3.2 mm) thicknesses. Two plies of fabric in 3/16" (4.8 mm) and 1/4" (6.4 mm) thicknesses.

- ASTM 02000-BC-810-Z1 (Z1 equals to 70 85 Durometer)

Style 2103 C.I.

A smooth finish SBR/NBR sheet constructed with polyester fabric. Designed to reduce creep in flanges. One ply of fabric per 1/16" (1.6 mm) thickness.

- ASTM 02000-BC-81 O-Z1 (Z1 equals to 70 80 Durometer)

Style 70 C.I.

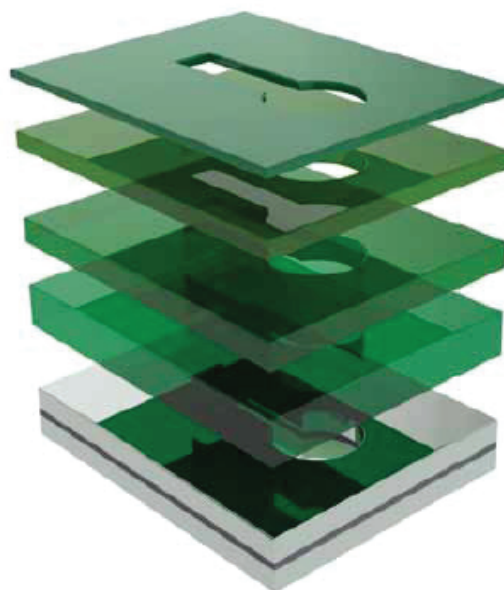
Style #2102 quality with cloth impression. One ply of fabric in 1/16" (1.6 mm) and 1/8" (3.2 mm) thicknesses. Two plies of fabric in 3/16" (4.8 mm) and 1/4" (6.4 mm) thicknesses.

- ASTM D2000-BC-810-Z1 (Z1 equals to 70 85 Durometer)

Style 2264

A smooth finish NBR/CR/SBR sheet, constructed with polyester. For moderate oil resistant applications. One ply of fabric in 1/16" (1.6 mm) through 1/8" (3.2 mm) thicknesses. Two plies of fabric in 3/16" (4.8 mm) and 1/4" (6.4 mm) thicknesses.

- ASTM 02000-BC-608



Product	Elastomer	Color	Durometer (Shore A)**	Typical Tensile* (minimum) psi (bar)	Finish	Ultimate Elongation (% min)	Approx. Wt. Lbs/Yd ² [kg/m ²] 1/16" [1.6mm]	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
Style 2102 C.I.	SBR/NBR	Black	70-80	1,300 (1,000) 90 (69)	Smooth	200	4.6 [2.5]	36, 48, 72 (914, 1219, 1829)	1/16 thru 1/4 (1.6 thru 6.4)	-20°F to +180°F (-29°C to +82°C)
Style 2103 C.I.	SBR/NBR	Black	70-80	1,300 (1,000) 90 (69)	Smooth	200	4.6 [2.5]	36, 48, 72 (914, 1219, 1829)	1/8, 3/16, 1/4 (3.2, 4.8, 6.4)	-20°F to +180°F (-29°C to +82°C)
Style 70 C.I.	SBR/NBR	Black	70-80	1,300 (1,000) 90 (69)	Cloth Finish	200	4.6 [2.5]	48 (1219)	MTO**	-20°F to +180°F (-29°C to +82°C)
Style 2264	Blended NBR/CR/SBR	Black	55-65	1,100 (800) 76 (55)	Smooth	300	3.9 [2.1]	36, 72 (914, 1829)	1/16, 1/8, 3/16, 1/4 (1.6, 3.2, 4.8, 6.4)	-20°F to +180°F (-29°C to +82°C)

** Made to Order

** Figures are for rubber compound without fabric.

GRT features a complete line of products for protecting applications such as: belt wipers, chute lining, skirtboards, bumper stock, tumbler liners and many more. GRT chute lining has been proven through years of on-the-job service, to perform well. Super RINOHIDE™, in particular, performs with superior resistance to abrasion, impact, aging and weathering.

Super RINOHIDE™ Style 7160

The most versatile protection material in the line. It is suitable for all of the above applications. It is made of specially compounded SBR to withstand severe impact and abrasion.

- ASTM D2000-BA-625

Tan Gum Style 135

Highest tensile strength, made of pure gum rubber, used for skirtboard, bumper stock, laundry lining, sand and shot blast curtains, scraper stock and tumbler liners.

- ASTM D2000-AA-430

Style 7164

Made of SBR and is most often used as chute lining. Other applications include belt wipers and laundry lining. An optional duck fabric backing is also available on minimum quantity orders.

- ASTM D2000-BA-620

Smooth Skirtboard

Made of SBR. Standard sizes available:

1/4" (6.4 mm) gauge in widths of 4", 5", 6", 8", 10", 12", and 48" (102, 127, 152, 203, 254, 305, and 1219 mm).

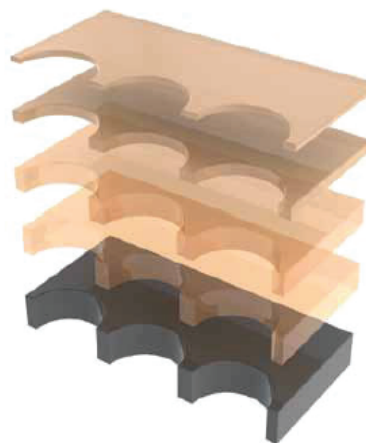
3/8" (9.5 mm) gauge in widths of 4", 5", 6", 8", 10", 12", and 48" (102, 127, 152, 203, 254, 305, and 1219 mm).

1/2" (12.7 mm) gauge in widths of 4", 5", 6", 8", 10", 12", and 48" (102, 127, 152, 203, 254, 305, and 1219 mm).

3/4" (19.1 mm) gauge in widths of 4", 6", 8", 10", and 12" (102, 152, 203, 254, and 305 mm).

1" (25.4 mm) gauge in widths of 6", 8", 10", and 12" (152, 203, 254, and 305 mm).

- ASTM D2000-AA-610



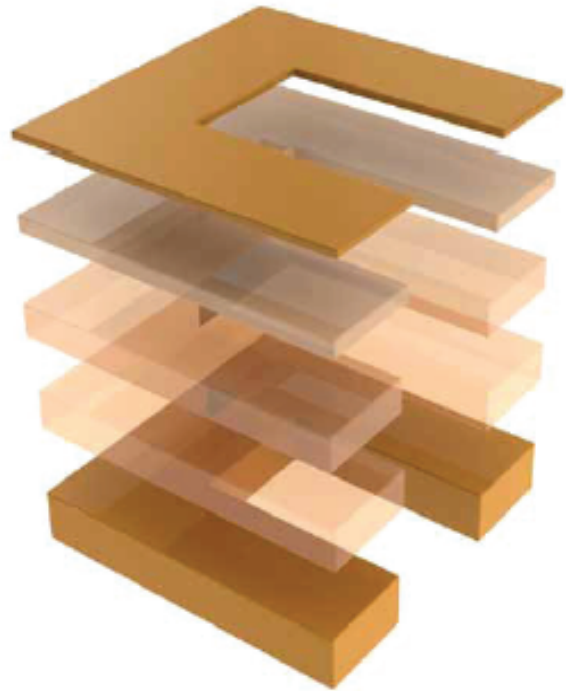
Product	Elastomer	Color	Durometer* (Shore A)	Typical Tensile* (minimum) psi (bar)	Finish	Ultimate Elongation (% min)	Approx. Wt. Lbs/Yd ² [kg/m ²] 1/16" [1.6mm]	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
Super RINOHIDE™	SBR	Black	55-65	2,800 (2,500) 193 (173)	Smooth	500	1.5 [0.8]	48 (1219)	1/8 thru 1/2 (3.2 thru 12.7)	-20°F to +200°F (-29°C to +93°C)
Tan Gum Style 135	Nitrile	Tan	35-45	3,400 (3,000) 235 (207)	Smooth	600	1.28 [0.7]	36, 48 (914, 1219)	1/4 thru 1/2 (6.4 thru 12.7)	-20°F to +180°F (-29°C to +82°C)
Style 7164	SBR	Black	55-65	2,400 (2,000) 166 (138)	Smooth	300	1.70 [0.9]	48 (1219)	1/8 thru 3/4 (3.2 thru 19.05)	-20°F to +200°F (-29°C to +93°C)
Smooth Skirtboard	SBR	Black	55-65	1,000	Smooth	300	1.62 [0.9]	4 thru 12 (102 thru 305)	1/4 thru 1 (6.4 thru 25.4)	-20°F to +180°F (-29°C to +82°C)

VIBLON™ Cushioning Pads

GRT VIBLON pads are technically engineered and specifically designed to cushion impact, shock and vibration. Constructed of multiple layers of high quality, cotton polyester duck fabric, completely impregnated with specially designed nitrile compounds.

VIBLON™

VIBLON™ is the answer to vibration, noise, impact, and shock problems. It is manufactured to the rigid requirements of Military Specification MIL C 882 E, American Association of State Highway and Transportation Officials (AASHTO), and the Federal Bureau of Public Roads. Designed for use in bridge, industrial machinery and railroad applications. Test report and certifications will be furnished on request. Conforms to article 2.10.3 (1) AASHTO specifications.



VIBLON™, sometimes referred to as cotton duck pad or preformed fabric pad, can support heavier loads than traditional bearing pads and can accommodate movement and rotation typically associated with bridges and structural applications.

VIBLON™ is also used in a wide variety of industrial applications for machine related vibration dampening, wear pads, and bushings.

Product	Elastomer	Color	Maximum Compressive Load	Finish	Ultimate Elongation (% min)	Approx. Wt. Lbs/Yd ² [kg/m ²] 1/16" [1.6mm]	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
VIBLON™	Nitrile	Tan	10,000 psig (690 bar)	Smooth	Not Applicable	†	48 (1219)	1/8, 5/64, 11/32, 1/2, 3/4, 1 (3,2, 6,0, 8,7, 12,7, 19,1, 25,4)	-40°F to +200°F (-40°C to +93°C)

WARNING

Exposure to chemicals, fuels, oils or heat can affect the performance of sheet rubber and cause the product to lose its ability to maintain a seal, causing leakage or other failures which could result in property damage, serious injury or death. Since each application is unique, consult Customer Service at 800.643.0134 or fax 800.325.0506 for further information.

GRT Plain Elastomeric Bridge Bearing Pads provide a uniform transfer of load from beam to substructure. They permit beam rotation at the bearing point due to deflection or misalignment. They absorb vibration and prevent sound transfer, while reducing the destructive action of vibration between movable and stationary structural members. They also provide for movement caused by normal expansion and contraction.

Elastomeric Bridge Bearing Pads are used extensively in bridge structures and prestressed and precast concrete buildings. They are also used in industrial machinery and heavy equipment applications. Three styles are available:

Style 256 and 258

Stocked in a 48" (1219 mm) width and made from a high quality neoprene. The pads are 45-55 Shore A hardness with a minimum ultimate elongation of 400% for Style 256 and 450% for Style 258.

Style 266 and 268

Stocked in a 48" (1219 mm) width and made from a high quality neoprene or natural elastomer. The pads are 55-65 Shore A hardness with a minimum ultimate elongation of 350% for Style 266 and 400% for Style 268.

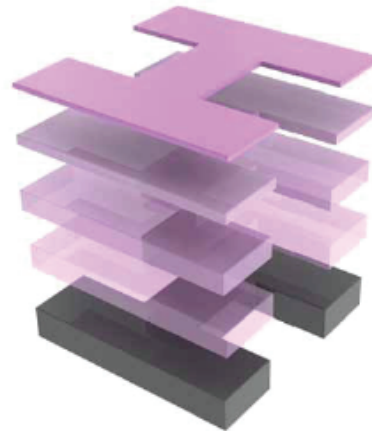
Style 276

Stocked in a 48" (1219 mm) width and made from a high quality neoprene elastomer. The pads are 65-75 Shore A hardness with a minimum ultimate elongation of 300%.

Specifications Available:

- AASHTO M251-06, grade 3 (Neoprene)
- AASHTO M251-06, grade 4 (Natural Rubber)
- AREMA, 2008, chapter 15
- Caltrans, section 51

NOTE: Some states specify requirements other than standard AASHTO specifications. When ordering, identify all requirements or submit individual state specification.



Product	Elastomer	Color	Durometer (Shore A)	Minimum Tensile* psi (bar)	Finish	Ultimate Elongation (%min)	Approx.Wt. lbs/yd ² (kg/m ²) 1/16" (1.6mm)	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
Style 256	Neoprene	Black	45-55	2,250 (155)	Smooth	400	3.88 (2.10)	48 (1219)	1/8, 1/4, 1/2, 3/4, 1 (3.2, 6.4, 12.7, 19.1, 25.4)	-40°F to +212°F (-40°C to +100°C)
Style 258	Natural	Black	45-55	2,250 (155)	Smooth	450	3.15 (1.71)	48 (1219)	1/8, 1/4, 1/2, 3/4, 1 (3.2, 6.4, 12.7, 19.1, 25.4)	-51°F to +158°F (-46°C to +70°C)
Style 266	Neoprene	Black	55-65	2,250 (155)	Smooth	350	3.94 (2.13)	48 (1219)	1/8, 1/4, 1/2, 3/4, 1 (3.2, 6.4, 12.7, 19.1, 25.4)	-40°F to +212°F (-40°C to +100°C)
Style 268	Natural	Black	55-65	2,250 (155)	Smooth	400	3.18 (1.72)	48 (1219)	1/8, 1/4, 1/2, 3/4, 1 (3.2, 6.4, 12.7, 19.1, 25.4)	-51°F to +158°F (-46°C to +70°C)
Style 276	Neoprene	Black	65-75	2,250 (155)	Smooth	300	4.03 (2.18)	48 (1219)	1/8, 1/4, 1/2, 3/4, 1 (3.2, 6.4, 12.7, 19.1, 25.4)	-40°F to +212°F (-40°C to +100°C)

*Call Customer Service 800.643.0134

High Performance Sheet Rubber - 500 Series 14

Chemicals, oils and heat, taken together or individually, present critical and unique sealing applications. Sealing problems can be avoided by selecting sealing materials suited to the rigors of these applications.

To help you select the most appropriate material for your sealing application, GRT has included in this catalog:

1. Chemical Resistance Chart
2. ASTM Specifications for all 500 Series Products
3. Safety Information, Specific Warnings and Maintenance Precautions that will assist in proper safety planning and material selection.

Style 501

Sheet rubber, made with VITON® fluoroelastomer, is a high performance product resistant to heat, oils, fuels, numerous acids and other chemicals.

- ASTM D2000-2HK-710-B37-Z1
(Z1 equals durometer of 75 ±5 Shore A)

Physical	Style 501	Style 505	Style 509
Properties	(VITON®)	(Butyl)	(CPE)
Compression Set Meets ASTM Test D395, 22 hrs at test temperature, % Max.	175°C (347°F) 50%	100°C (212°F) 60%	125°C (257°F) 60%
Resistance to Heat Meets ASTM D573 Heat Aged Test of 70 hrs at test temperature	250°C (482°F)	125°C (257°F)	125°C (257°F)
Change in hardness, pts	±15	±15	±15
Change in Tensile, %	±30	±30	±30
Change in Elongation, % Max	-50	-50	-50
Specific Gravity	1.85	1.11	-
Oil Resistance Meets D471 Oil Immersion Test, No. 3 Oil, 70 hours at 150°C (302°F).			
Change in Volume, % Max	10	-	-

Style 505

A branded, chlorinated polyethylene (CPE) sheet rubber product. CPE has excellent resistance to many chemical groups such as oils, acids, bases and alcohols. CPE is also very resistant to oxidation, heat and ozone.

- ASTM D2000 2CE-718-B15

Style 509

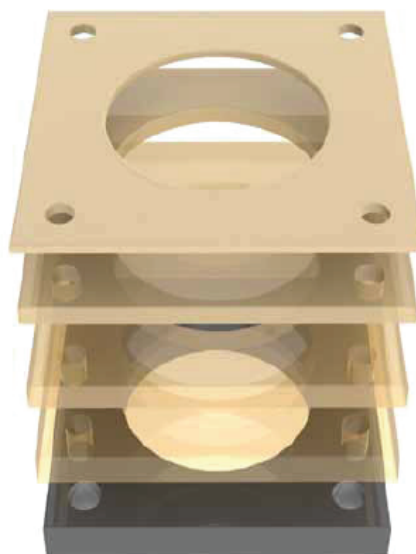
A branded, chlorobutyl sheet rubber product, also referred to as "Butyl" sheet.

- ASTM D2000-BA-615

Style 9518

A branded, fluoroelastomer (type A), is a high performance sheet resistant to heat, oils, fuels, numerous acids and other chemicals. Also referred to as "FKM".

- ASTM D2000-2HK-710-B37-Z1



Product	Elastomer	Color	ASTM D2240 Durometer (Shore A)**	Typical Tensile ASTM D412 (minimum) psi (bar)	Finish	ASTM D412 Ultimate Elongation (% min)	Approx. Wt. Lbs/Yd² [kg/m²] 1/16" [1.6mm]	Width* Inches (mm)	Stock Gauge* Inches (mm)	Temperature Range
Style 501 Branded	VITON®	Black	70-80	1,300 (1,000) 90 (69)	Smooth	175	5.4 [2,9]	36, 48 (914, 1219)	1/16, 1/8, 1/4 (1.6, 3.2, 6.4)	-15°F to +400°F (-26°C to +204°C)
Style 505 Branded	Chlorinated Polyethylene	Black	65-75	2,000 (1,800) 138 (124)	Smooth	350	4.1 [2,2]	36 (914)	MTO**	-20°F to +275°F (-29°C to +135°C)
Style 509 Branded	Butyl	Black	55-65	1,800 (1,500) 124 (104)	Smooth	350	3.3 [1,8]	36 (914)	1/8	-30°F to +300°F (-34°C to +149°C)
Style 9518 Branded	FKM	Black	70-80	1000	Smooth	175	5.4 [2,9]	36, 48 (914, 1219)	1/16, 1/8, 3/16, 1/4	-15°F to +400°F (-26°C to +204°C)

** Made to Order

*Contact Customer Service for width and gauge tolerance. VITON® is a registered trademark of DuPont Dow Elastomers

Elastomer Type	Performance Characteristics
<p>Butyl 11R (isobutylene-isoprene)</p>	<ul style="list-style-type: none"> + Excellent resistance to acids and alkalis. + Excellent weathering properties and heat resistance. + Excellent electrical resistance. Low permeability to air. - Poor resistance to fuels, solvents, oils and hydrocarbons. - Cold weather properties are fair.
<p>CPE (Chlorinated Polyethylene)</p>	<ul style="list-style-type: none"> + Excellent oxidation resistance. + Good oil resistance, heat resistance, ozone resistance and weather resistance. + Fair resistance to ketones and ethers. - Poor cold weather properties.
<p>EPDM (ethylene-propylene diene)</p>	<ul style="list-style-type: none"> + Excellent resistance to ozone, sunlight and oxygen. + Excellent resistance to acids, alkalis and ketones. + Excellent heat resistance and aging. - Poor resistance to fuels and oils.
<p>Fluoroelastomer (VITON®fluoroelastomer, a registered trademark of DuPont Dow Elastomers)</p>	<ul style="list-style-type: none"> + Excellent resistance to heat and oil combinations: hot greases found in engines and compressors. + Excellent resistance to a wide range of concentrated acids. - High cost of fluoroelastomer may limit usage to extreme applications. - Resilience is low and tear strength is limited unless certain compounding steps are taken to improve it. - Impact resistance is fair.
<p>SBR (Styrene butadiene)</p>	<ul style="list-style-type: none"> + Good abrasion resistance and excellent impact and cut and gouge resistance. Can be compounded for use as skirtboard rubber, lining rubber, conveyor belt covers, tires and other extremely demanding applications. Used as gasket material and as an economical general purpose sheet. - Not suited for use with oils, fuels, solvents, or hydraulic fluids.

Elastomer Type	Performance Characteristics
<p>Natural Rubber NR (Gum)</p>	<p>+ Good gasket material due to excellent physical properties such as resilience, tear strength and wear resistance.</p> <p>+ Natural rubber is used effectively as sand and shot blast curtain material because of its high abrasion resistance and resilience.</p> <p>- Deteriorates when exposed to oils, fuels, solvents, and hydraulic fluids. Poor resistance to sunlight, ozone and oxygen.</p>
<p>Neoprene CR (chloroprene)</p>	<p>+ Good oil and petroleum-based solvent resistance. Good weather and ozone resistance. Neoprene may be blended with SBR rubber CR (chloroprene) to achieve an economically priced sheet for moderately oil resistant applications.</p> <p>- Poor resistance to degreaser solvents. Content levels of neoprene can vary widely. Application problems may occur when using blended or commercial grades of neoprene sheet of unknown quality levels in contact with oil, solvents and fuels.</p> <p>Where good oil or fuel resistance is required, the fabricator and user need to specify one of the following:</p> <ul style="list-style-type: none"> • A known manufacturer's product • An ASTM call-out • A military specification • An ASTM-specified oil resistance level based on an ASTM test (e.g. oil swell)
<p>Nitrile (butadiene-acrylonitrile)</p>	<p>+ Excellent resistance to oils, solvents and fuels. Resistant to a broader range of aromatic hydrocarbons than neoprene. Nitrile may be blended with SBR rubber to achieve an economically priced sheet for moderately oil resistant applications.</p> <p>- Application problems may occur when using nitrile of unknown quality levels in extreme oil resistance applications or in contact with fuels and solvents.</p> <p>Content levels of nitrile can vary widely.</p> <p>Where oil or fuel resistance is required, the fabricator and user need to specify one of the following:</p> <ul style="list-style-type: none"> • A known manufacturer's product • An ASTM call-out • A military specification • An ASTM-specified oil resistance level based on an ASTM test (e.g. oil swell)

If you need sheet products other than those in this catalog, let us know your requirements. We have complete facilities to make a wide variety of custom products, using our formulations of your specifications.

Products can be manufactured with a variety of surface impressions from smooth to cotton fabric, fine or coarse nylon.

Information Necessary for Custom Manufacturing

A complete description of the product requirements and proposed service conditions should be furnished. This will enable us to quote the proper grade for best service at the lowest cost. Any samples submitted should be at least a 12 inch (300 mm) square. Use the following checklist to furnish data:

Description

1. Thickness, width and length
2. Tolerance (commercial or special)
3. Quantity
4. Durometer ± 5 (Shore A)
5. Tensile strength
6. Elongation
7. Cloth inserted (Cl.)
8. Cloth one side (C.O.S.)
9. Cloth both sides (C.B.S.)
10. All rubber
11. Surface (smooth, cloth impression)
12. Color
13. Untrimmed or trimmed to size

Service Conditions

1. Temperature
2. Heat (air, steam, water, oil)
3. Oil (type and extent of contact)
4. Chemicals
5. Concentration of chemical (%)
6. Partially or totally confined gasket
7. Abrasive condition(s)
8. Ozone
9. Other pertinent data

Specifications to be Met

1. Government
2. ASTM or SAE
3. Customer

Sheet Rubber Tolerances

Thickness	Tolerance	
	Inches	mm
1/32" (0.8mm)	± 0.012	± 0.3
1/16" (1.6mm) but not including 1/8" (3.2mm)	± 0.016	± 0.4
1/8" (3.2mm) but not including 3/16" (4.8mm)	± 0.020	± 0.5
3/16" (4.8mm) but not including 3/8" (9.5mm)	± 0.031	± 0.8
3/8" (9.5mm) but not including 9/16" (14.3mm)	± 0.047	± 1.2
9/16" (14.3mm) but not including 3/4" (19.1mm)	± 0.063	± 1.6
3/4" (19.1mm) but not including 1" (25.4mm)	± 0.093	± 2.4
1" (25.4mm) and over	$\pm 10\%$	

Width	Tolerance	
36" (914mm) and over	± 1	± 25.4
Roll Length	$\pm 25\%$	

Sheet Rubber Tolerances - Neoprene Bearing Pads

Thickness	Tolerance	
	Inches	mm
1" (25.4mm) and below	-0, +1/8	-0, +3.2
Above 1" (25.4mm)	-0,+1/4	-0, +6.4

Width	Tolerance	
1" (25.4mm) gauges and below on widths 36" (914mm) and 48" (1219mm)	-0, +1"	-0, +25.4
Above 1" (25.4mm)	1"	25.4

ASTM Specifications If you have other applications requiring other ASTM specifications not listed, please contact customer service at 800.643.0134.

GRT is one of North America’s most advanced manufacturers of industrial sheet rubber for gasketing, cushioning and protecting applications. We offer a full line of sheet rubber products suited for a variety of end use applications.

GRT serves end users through a worldwide network of industrial distributors who fabricate a variety of parts from our sheet products using many state-of-the-art techniques. Our distributors modify and enhance our high quality sheet products. The teamwork among GRT, distributors and end users allows us to offer a complete package, ensuring high performance and top quality for all your rubber product applications.

Important Information You Should Know

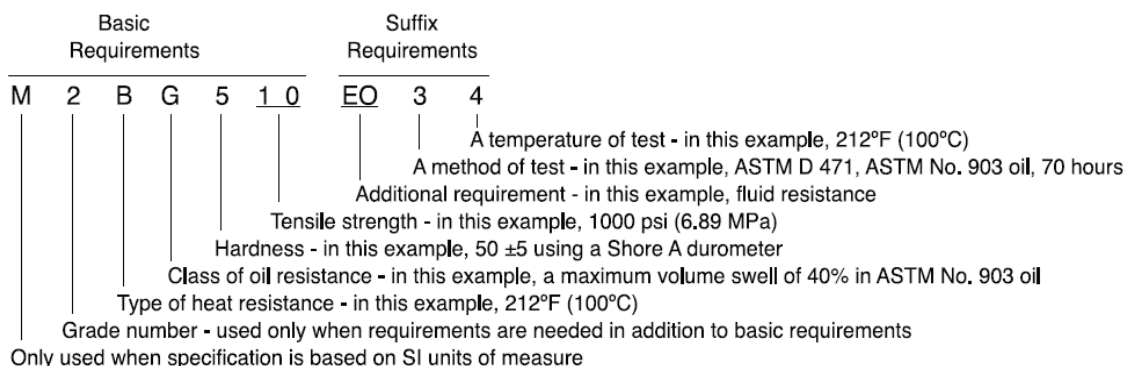
ANSI/ASTM D 2000

American National Standards Institute
American Society for Testing and Materials

Are your rubber products meeting these standards or are you creating possible problems for you and your company?

ANSI / ASTM standards give you the assurance you are receiving the quality you deserve. Know what you’re buying in a global economy.

ASTM D2000 Line Call-out



Do you know that some products like commercial grade neoprene can contain very little neoprene and in some cases no neoprene at all? If the price is extremely low, it’s more than likely you’re not getting what you really want or need.

To ensure that you get what you pay for, buy rubber by the foot or yard, not by the pound. You get more material for the money and the best yield. Remember, rubber polymers weigh less than a lot of cheaper fillers like calcium carbonate or clay.

Guidelines to use when buying rubber products

- Use ANSI/ASTM D 2000 Standards when ordering rubber products and be sure you verify these standards with your supplier.
- Buy rubber products by the foot or yard for better yields. Be sure to verify pounds vs. yields with your supplier.
- Buy from GRT Rubber - Quality products made with pride in the U.S.A.
Phone: 800.643.0134. Fax: 800.325.0506

Beyond offering you a wide range of rubber, conveying and sealing, GRT enhances the value of its products with technical services and comprehensive training programs:

- A global network of stocking Authorized GRT Distributors.
- Factory sales representatives and applications engineers available for problem solving when and where it is needed.
- Toll-free 800 telephone and fax numbers for immediate product information.
- In-plant surveys of equipment and processes, providing the customer with recommendations to identify and eliminate conveying and sealing problems before they start.
- The most sophisticated and most comprehensive test facilities available.
- Technical field seminars on all GRT products.
- Factory-sponsored product training programs, including hands-on seminars, to ensure that GRT representatives and their distributor personnel are the best in the industry.
- Technical Bulletins to keep you up-to-date on product enhancements and changes.

Customers who specify GRT products get, at no extra cost, the high quality support needed to run a profitable operation.

WARNING:

Properties/applications shown throughout this brochure are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult GRT.

Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing.

While the utmost care has been used in compiling this brochure, we assume no responsibility for errors. Specifications subject to change without notice. This edition cancels all previous issues. Subject to change without notice.

GRT is a registered trademark for engineered sheet rubber products, conveyor belting, cut parts, bridge bearing pad and vibration isolation pads.

Check out our Valley Rubber product line featuring Transfer Systems, Haul Truck Lining and Screening:

valleyrubber.solutions

