

NEOPRENE



A general purpose compound with low temperature flexibility and oil resistance. Resists rotting, checking, and cracking due to weather exposure. Commonly used for gaskets, sealing, skirting, cushioning, or stripping rubber material. Great for rubber washers and bushings.

ADVANTAGES Good inherent flame resistance; moderate resistance to oil and gasoline; excellent adhesion to fabrics and metals; very good resistance to weather, ozone and natural aging; good resistance to abrasion and flex cracking; very good resistance to alkalis and acids.

LIMITATIONS Poor to fair resistance to aromatic and oxygenated solvents; limited ability at low temperatures.

APPLICATIONS Where mild oil resistance and weathering properties are both required (gaskets and washers, seals for doors and windows).

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") | SPECIFICATIONS |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------------------|---|---|
| 40 | 1/16 - 2 | 36, 48 | 800 | 350 | -20°F to 170°F | 2.5 lb | ASTM D 2000 1BC 408 SAE J200 1BC 408 MIL R 3065 SC 408 Z1 |
| 50 | 1/32 - 2 | 36, 48, 72 | 800 | 300 | -20°F to 170°F | 2.6 lb | ASTM D 2000 1BC 508 SAE J200 1BC 508 MIL R 3065 SC 508 Z1 |
| 60 | 1/32 - 2 | 36, 48, 72 | 900 | 300 | -20°F to 170°F | 2.7 lb | ASTM D 2000 1BC 609 SAE J200 1BC 609 MIL R 3065 SC 609 Z1 |
| 70 | 1/32 - 2 | 36, 48, 72 | 1000 | 200 | -20°F to 170°F | 2.7 lb | ASTM D 2000 1BC 710 SAE J200 1BC 710 MIL R 3065 SC 710 Z1 |
| 80 | 1/32 - 2 | 36, 48, 72 | 1000 | 100 | -20°F to 170°F | 2.8 lb | ASTM D 2000 1BC 810 SAE J200 1BC 810 MIL R 3065 SC 810 Z1 |

*Tables display most prevalent versions of material. Unlisted durometers and manipulations to these specification can be custom manufactured.



SLAB NEOPRENE

High-grade commercial neoprene offered in heavy gauges. These high-quality slabs lay flat, rather than bent or rolled, to make cutting easier. Used for machinery mounting pads, wear strips, shock pads and where medium oil and ozone resistance is required.

ADVANTAGES Good inherent flame resistance; moderate resistance to oil and gasoline; excellent adhesion to fabrics and metals; very good resistance to weather, ozone and natural aging; good resistance to abrasion and flex cracking; very good resistance to alkalis and acids.

LIMITATIONS Poor to fair resistance to aromatic and oxygenated solvents; limited ability at low temperatures.

APPLICATIONS Where mild oil resistance and weathering properties are both required (gaskets and washers, seals for doors and windows).

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (2" X 48") |
|-------------------------------------|-----------------------|------------------------------|-----------------------|---------------------------------|-------------------|--|
| 60 | 1 - 2 | 48 | 1000 | 350 | -20°F to 190°F | 60 lbs |

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RED RUBBER

An economical red sheet for use in low pressure applications with no oil resistant requirements. Red rubber remains the industry’s general service gasket material for common applications such as water. Can be waterjet fabricated or die cut to any shape.

ADVANTAGES Excellent impact strength; very good resilience; tensile strength; abrasion resistance and flexibility at low temperatures.

LIMITATIONS Poor resistance to ozone and sunlight; very little resistance to oil, gasoline and hydrocarbon solvents.

APPLICATIONS Bulk and non-critical applications (basic gaskets and washers, skirtboards, scrapers).

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") | SPECIFICATIONS |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------------------|---|---|
| 75 | 1/32 - 1/4 | 36, 48, 72 | 400 | 400 | -20°F to 170°F | 3.5 lb | ASTM D 1330 Grade 2SAE ASTM D 2000 1AA 704 Z1 (Z1 = 75 ± 5 Durometer) |

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GUM RUBBER



Excellent physical properties such as superior resilience, tensile, elongation, and abrasion resistance. Tan floating stock is produced entirely with FDA approved ingredients. It has good tear strength and is resistant to water, most salts, mild acids and 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.

ADVANTAGES Outstanding resistance; high tensile strength; superior resistance to tear and abrasion; excellent rebound elasticity (snap); good flexibility at low temperatures; excellent adhesion to fabric and metal.

LIMITATIONS Poor resistance to heat, ozone and sunlight; very little resistance to oil, gasoline and hydrocarbon solvents.

APPLICATIONS Where abrasion resistance and rebound are critical (cement sleeves, chute linings, low temperature belting, tank lining, cyclones, and concentrators).

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") | SPECIFICATIONS |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------------------|---|--|
| 40 | 1/16 - 1 | 36, 48 | 3000 | 600 | -20°F to 140°F | 1.9 lb | ASTM D 2000 1AA 430 SAE J200 1 AA 430 FDA Approved Ingredients per 21 CFR 177.2600 |

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For use in applications requiring higher temperature ranges, ozone, chemical and weather resistance. Can be waterjet fabricated to any shape.

ADVANTAGES Excellent resistance to heat, ozone and sunlight; very good flexibility at low temperatures; good resistance to alkalis, acids and oxygenated solvents; superior resistance to water and steam; excellent color stability.

LIMITATIONS Poor resistance to oil, gasoline and hydrocarbon solvents; adhesion to fabrics and metals is poor.

APPLICATIONS Weather-stripping for doors and windows, automotive weather-stripping, gaskets and washers around electrical equipment.

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") | SPECIFICATIONS |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------------------|---|---|
| 50 | 1/16 - 1/4 | 36, 48 | 800 | 300 | -40°F to 212°F | 2.5 lb | ASTM D 2000 3BA 508 C12 SAE J200 3BA 508 C12 MIL R-3065 RS 508 C1 |
| 60 | 1/16 - 1/4 | 36, 48 | 800 | 250 | -40°F to 212°F | 2.6 lb | ASTM D 2000 3BA 608 C12 SAE J200 3BA 608 C12 MIL R-3065 RS 608 C1 |
| 70 | 1/16 - 1/4 | 36, 48 | 800 | 150 | -40°F to 212°F | 2.7 lb | ASTM D 2000 3BA 708 C12 SAE J200 3BA 708 C12 MIL R-3065 RS 708 C1 |

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CLOTH INSERTED RUBBER



Where applications call for maximum conformity and deformation resistance, RAGCO offers reinforced sheet rubber in several popular combinations of fabric and compounds. Fabric reinforced rubber presents good dimensional stability under high compression loads. Custom compounding and fabrication of reinforced sheet products can be specified to match unique application requirements.

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | FABRIC WEIGHT (OZ.) | FABRIC TYPE | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36" IN LB.) |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|---------------------|-------------|-------------------|--|
| SBR Cotton | | | | | | | | |
| 65 | 1/16 - 1/4 | 36, 48, 72 | 1500 | 350 | N/A | Cotton | -30°F to 170°F | 2.75 |
| SBR Polyester | | | | | | | | |
| 65 | 1/16 - 1/4 | 36, 48, 72 | 1500 | 350 | 4.0 | Polyester | -30°F to 170°F | 2.74 |
| SBR Nylon | | | | | | | | |
| 70 | 1/16 - 1/4 | 36, 48, 72 | 800 | 250 | 3.4 | Nylon | -20°F to 170°F | 2.92 |
| Neoprene Cotton | | | | | | | | |
| 70 | 1/16 - 1/4 | 36, 48, 72 | 1000 | N/A | N/A | Cotton | -30°F to 200°F | 2.41 |
| Neoprene Polyester | | | | | | | | |
| 70 | 1/16 - 1/4 | 36, 48, 72 | 1000 | N/A | 4.0 | Polyester | -30°F to 200°F | 2.34 |
| Neoprene Nylon | | | | | | | | |
| 60 | 1/16 - 1/4 | 36, 48, 72 | 1000 | N/A | 3.4 | Nylon | -20°F to 170°F | 2.76 |
| Buna Nylon | | | | | | | | |
| 60 | 1/16 - 1/4 | 36, 48, 72 | 1000 | 400 | 3.4 | Nylon | -20°F to 170°F | 2.94 |

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* RAGCO supports the autonomy of its locations to select the best products to service their markets. Subtle variations of these specification may exist. Contact your RAGCO affiliate for confirmation.



NITRILE



For use in applications requiring a rubber sheet or gasket with high resistance to petroleum based fluids.

ADVANTAGES Very good resistance to oil and gasoline; superior resistance to petroleum-based hydraulic fluids; wide range of service temperatures; good resistance to hydrocarbon solvents; very good resistance to alkalis and acids.

LIMITATIONS Inferior resistance to ozone, sunlight and natural aging; poor resistance to oxygenated solvents.

APPLICATIONS Where oil resistance is the main concern (machinery gaskets, around oil and gas handling equipment, heat and oil resistant belting).

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") | SPECIFICATIONS |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------------------|---|---|
| 40 | 1/16 - 1 | 36, 48 | 800 | 350 | -20°F to 170°F | 2.5 lb | ASTM D 2000 1BF 408 Z1, SAE J200 1BF 408 Z1 (Z1 = Meets basic requirements for BF materials. Physical properties are as listed.) |
| 50 | 1/32 - 1 | 36, 48 | 800 | 300 | -20°F to 170°F | 2.6 lb | ASTM D 2000 1BF 508 Z1, SAE J200 1BF 508 Z1 (Z1 = Meets basic requirements for BF materials. Physical properties are as listed.) |
| 60 | 1/32 - 1 | 36, 48 | 900 | 200 | -20°F to 170°F | 2.7 lb | ASTM D 2000 1BF 609, SAE J200 1BF 609 |
| 70 | 1/32 - 1 | 36, 48 | 1000 | 200 | -20°F to 170°F | 2.7 lb | ASTM D 2000 1BF 710, SAE J200 1BF 710 |
| 80 | 1/32 - 1 | 36, 48 | 1000 | 100 | -20°F to 170°F | 2.8 lb | ASTM D 2000 1BF 810, SAE J200 1BF 810 |

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WHITE FDA NITRILE



A sheet specially formulated for its whiteness, used in food, pharmaceutical, and cosmetic processing. Made from FDA-approved ingredients per 21CFR 177.2600, it is non-marking, non-allergenic, and safe to use for repeated food exposure. It has good oil and abrasion resistance and handles oily and greasy food products well. **White in color.**

ADVANTAGES Very good resistance to oil and gasoline; superior resistance to petroleum-based hydraulic fluids; wide range of service temperatures; good resistance to hydrocarbon solvents; very good resistance to alkalis and acids.

LIMITATIONS Inferior resistance to ozone, sunlight and natural aging; poor resistance to oxygenated solvents.

APPLICATIONS Where oil resistance is the main concern (machinery gaskets, around oil and gas handling equipment, white food grade, heat and oil resistant belting).

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") | SPECIFICATIONS |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------------------|---|--|
| 60 | 1/32 - 1/4 | 36, 48 | 1000 | 350 | -25°F to 180°F | 2.8 lb | ASTM D 2000 1BG 610, FDA-approved ingredients per 21CFR 177.2600 |

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A premium grade fluoro-elastomer sheet for the most demanding applications. Excellent heat and chemical resistance, but not suitable for flex fuels containing high levels of alcohol or MTBE.

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | COLOR | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------|-------------------|---|
| 75 | 1/32 - 1 | 36, 48 | 1000 | 175 | Black | -20°F to 400°F | 3.76 lb |

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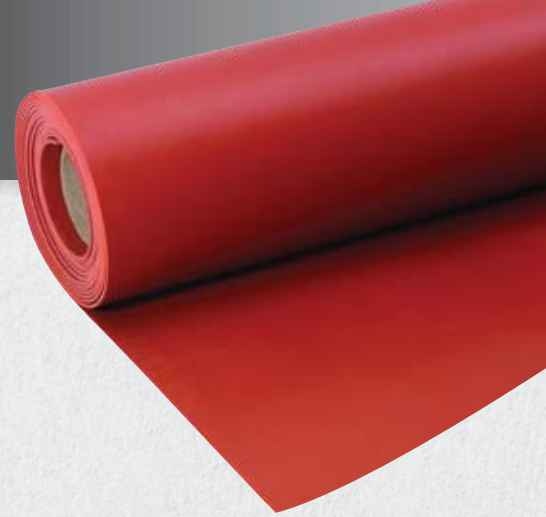
With resistance to most chemicals, temperature extremes, ultraviolet light, and oil, Hypalon® chlorosulfonated polyethylene is used in a wide range of industrial and automotive applications where high performance is critical.

ADVANTAGES Flame resistance, Excellent color stability, Weather and abrasion resistance, Low moisture absorption, Good dielectric qualities, High abrasion resistance

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------------------|---|
| 60 | 1/16 - 3/8 | 36, 48 | 900 | 500 | -62°F to 210°F | 2.9 lb |

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SILICONE



Silicone sheet is designed to be used in applications where extreme high and low temperature resistance is needed. This material also provides excellent UV and ozone resistance, is non-toxic, chemically inert and fungus resistant.

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") | FEATURES |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------------------|---|--|
| 60 | 1/16 - 1/4 | 36, 48 | 500 | 200 | -65°F to 400°F | 2.59 lb | High & Low Temperature Resistance, Excellent Weathering Resistance |

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BUTYL



Butyl rubber has exceptionally low gas and moisture permeability and outstanding resistance to heat aging, weather, ozone, chemical attack, flexing, abrasion and tearing. It is resistant to phosphate ester based hydraulic fluids, and has excellent electrical insulation performance. Butyl is not recommended for use when in contact with petroleum oils and fluids.

| DUROMETER HARDNESS (SHORE A ± 5) | THICKNESS (INCHES) | AVAILABLE WIDTHS (INCHES) | TENSILE (MIN. PSI) | ULTIMATE ELONGATION (MIN. %) | TEMPERATURE RANGE | ESTIMATED WEIGHT PER LINEAR FOOT (1/8" X 36") |
|----------------------------------|--------------------|---------------------------|--------------------|------------------------------|-------------------|---|
| 60 | 1/16 - 1/4 | 36, 48 | 800 | 350 | -30°F to 230°F | 3.1 lb |

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