Polychloroprene Rubber - Neoprene®

ASTM D1418 & ISO 1629 Designation: CR ASTM D2000, SAE J200 Type/Class: BA, BC Mil-R-3065 (Mil-Std 417) Class: SE



- Advantages: Excellent mechanical and abrasion properties; high ozone and weather resistance; good heat ageing resistance; low flammability; good resistance to chemicals and inorganic chemical products; moderate oil and fuel resistance; adhesion to many substrates. Flame retardant grades available.
- **Limitations:** Relatively high water absorption; some grades crystalize at low ambient temperatures; only reasonable resilience; poor hydrocarbon resistance.

Physical & Mechanical Properties

Durometer or Hardness Range: 20-95 Shore A Tensile Strength Range: 500 - 3,000 PSI Elongation (Range%): 100% - 800% Abrasion Resistance: Very Good to Excellent Adhesion to Metal: Excellent Adhesion to Rigid Materials: Good to Excellent Compression Set: Poor to Good Flex Cracking Resistance: Good Impact Resistance: Good to Excellent Resilience/Rebound: Fair to Good Tear Resistance: Good to Excellent Vibration Dampening: Good to Excellent

Thermal Properties

General Temperature Range -70°F to 250°F Min. for continuous Use (Static): -70°F Brittle Point: -85°F Max. for Continuous Use (Static): 250°F

Environmental Performance

Colorability: Fair Flame Resistance: Fair to Good Gas Permeability: Fair to Good Odor: Fair to Good Ozone Resistance: Good to Excellent Oxidation Resistance: Good to Excellent Radiation Resistance: Fair to Good Steam Resistance: Good to Excellent Weather Resistance: Fair to Good Water Resistance: Fair to Good

Chemical Resistance

Acids, Dilute: Excellent Acids, Concentrated: Poor Acids, Organic (Dilute): Good to Excellent Acids, Organic (Concentrated): Poor to Good Alcohols: Excellent Aldehydes: Poor to Fair Alkalies, Dilute: Good Alkalies, Concentrated: Poor Amines: Poor to Good Animal & Vegetable Oils: Good Brake Fluids, Non-Petroleum Based: Fair **Diester Oils: Poor** Esters, Alkyl Phosphate: Poor Esters, Aryl Phosphate: Poor to Fair Esthers: Poor Fuel, Aliphatic Hydrocarbon: Poor to Good Fuel, Aromatic Hydrocarbon: Poor to Fair Fuel, Extended (Oxygenated): Fair Halogenated Solvents: Poor Hydrocarbon, Halogenated: Poor Ketones (MEK, acetone): Poor to Fair Lacquer Solvents: Poor LP Gases & Fuel Oils: Good Mineral Oils: Fair to Good Oil Resistance: Fair Petroleum Aromatic: Good Petroleum Non-Aromatic: Good Refrigerant Ammonia: Excellent Refrigerant Halofluorocarbons: R-11, R-12, R-13, R21, R22 Refrigerant Halofluorocarbons w/ Oil: R-11, R-12, R22 Silicone Oil: Fair to Excellent Solvent Resistance: Fair

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