Polyester Urethane Rubber

ASTM D1418 & ISO 1629 Designation: AU, EU ASTM D2000, SAE J200 Type/Class: BF, BG, BK Mil-R-3065 (Mil-Std 417) Class: SB



Advantages: The most abrasion resistant of all elastomers; good resistance to ozone, UV and radiation; good resistance to aliphatic hydrocarbons and fuels.

Limitations: Susceptible to hydrolysis in hot and damp conditions; poor resistance to polar organic solvents.

Physical & Mechanical Properties

Durometer or Hardness Range: 35-95 Shore A Tensile Strength Range: 500 - 6,000 PSI Elongation (Range%): 250% - 900% Abrasion Resistance: Fair to Good Adhesion to Metal: Excellent Adhesion to Rigid Materials: Excellent Compression Set: Good Flex Cracking Resistance: Fair to Good Impact Resistance: Good to Excellent Resilience/Rebound: Poor to Good Tear Resistance: Good to Excellent Vibration Dampening: Fair to Good

Thermal Properties

General Temperature Range -65°F to 220°F Min. for continuous Use (Static): -65°F Brittle Point: -80°F Max. for Continuous Use (Static): 200°F

Environmental Performance

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

Chemical Resistance

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

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