Ethylene Propylene (EPDM)

ASTM D1418 & ISO 1629 Designation: EPDM, EPM ASTM D2000, SAE J200 Type/Class: AA, BA, CA, DA

Mil-R-3065 (Mil-Std 417) Class: RS



Advantages: Excellent inherent high & low temperature ranges (higher heat resistance than other hydrocarbon rubbers; inherently resistant to oxygen, ozone, UV, and extreme weather environments; high ageing resistance; good resistance to many chemicals and solvents; vulcanizable by both peroxid and sulphur; easily processed.

Limitations: Lack of Tack; poor adhesion properties; unsuitable for most organic liquids and oils.

Physical & Mechanical Properties

Durometer or Hardness Range: 30-90 Shore A

Tensile Strength Range: 500 - 2,500 PSI

Elongation (Range%): 100% - 700% Abrasion Resistance: Good

Adhesion to Metal: Fair to Good

Adhesion to Rigid Materials: Good to Excellent

Compression Set: Good

Flex Cracking Resistance: Good

Impact Resistance: Very Good

Resilience/Rebound: Fair to Good

Tear Resistance: Fair to Good

Vibration Dampening: Fair to Good

Thermal Properties

General Temperature Range -60°F to 300°F

Min. for continuous Use (Static): -60°F

Brittle Point: -70°F

Max. for Continuous Use (Static): 300°F

Environmental Performance

Colorability: Good to Excellent

Flame Resistance: Poor

Gas Permeability: Fair to Good

Odor: Good

Ozone Resistance: Good to Excellent

Oxidation Resistance: Excellent

Radiation Resistance: Good to Excellent

Steam Resistance Excellent Sunlight Resistance: Excellent

Weather Resistance: Excellent

Water Resistance: Excellent

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Chemical Resistance

Acids, Dilute: Excellent

Acids, Concentrated: Excellent

Acids, Organic (Dilute): Excellent

Acids, Organic (Concentrated): Fair to Good

Alcohols: Good to Excellent

Aldehydes: Good to Excellent

Alkalies, Dilute: Excellent

Alkalies, Concentrated: Excellent

Amines: Fair to Good

Animal & Vegetable Oils: Good

Brake Fluids, Non-Petroleum Based: Good to Excellent

Diester Oils: Poor

Esters, Alkyl Phosphate: Excellent

Esters, Aryl Phosphate: Excellent

Esthers: Fair

Fuel, Aliphatic Hydrocarbon: Poor

Fuel, Aromatic Hydrocarbon: Poor

Fuel, Extended (Oxygenated): Poor

Halogenated Solvents: Poor

Hydrocarbon, Halogenated: Poor

Ketones (MEK, acetone): Good to Excellent

Lacquer Solvents: Poor

LP Gases & Fuel Oils: Poor

Mineral Oils: Poor

Oil Resistance: Poor

Petroleum Aromatic: Poor

Petroleum Non-Aromatic: Poor

Refrigerant Ammonia: Good

Refrigerant Halofluorocarbons: R-12, R-13

Refrigerant Halofluorocarbons w/ Oil: Poor

Silicone Oil: Excellent

Solvent Resistance: Poor

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