

Abbreviation EPDM

Chemical Definition Ethylene Propylene
Diene Monomer

Physical & Mechanical Properties

Durometer or Hardness Range 30 – 90 Shore A
Tensile Strength Range 35 – 200 kg/cm²
Elongation (Range %) 100 % – 700 %
Abrasion Resistance, Good
Adhesion to Metal, Good to Excellent
Adhesion to Rigid Materials, Good to Excellent
Compression Set, Poor to Excellent
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

Low Temperature Range - 51,1 °C to - 40 °C
Minimum for Continuous Use (Static) - 51,1 °C
Brittle Point - 56,6 °C
High Temperature Range + 104,4 °C to + 148,8 °C
Maximum for Continuous Use (Static) + 148,8 °C

Environmental Performance

Colorability, Good to Excellent
Flame Resistance, Poor
Gas Permeability, Fair to Good
Odor, Good
Ozone Resistance, Good to Excellent
Oxidation Resistance, Excellent

Chemical Resistance

Acids, Dilute, Excellent
Acids, Concentrated, Excellent
Acids, Organic (Dilute), Excellent
Acids, Organic (Concentrated), Fair to Good
Acids, Inorganic, Excellent
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
Ethers, Fair
Fuel, Aliphatic Hydrocarbon, Poor
Fuel, Aromatic Hydrocarbon, Poor
Fuel, Extended (Oxygenated), Poor
Halogenated Solvents, Poor
Hydrocarbon, Halogenated, Poor
Ketones, 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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