

Abbreviation SBR

Chemical Definition Styrene Butadiene

Physical & Mechanical Properties

Durometer or Hardness Range 30 – 95 Shore A
Tensile Strength Range 35 – 210 kg/cm²
Elongation (Range %), 450 % – 600 %
Abrasion Resistance, Excellent
Adhesion to Metal, Excellent
Adhesion to Rigid Materials, Excellent
Compression Set, Good to Excellent
Flex Cracking Resistance, Good
Impact Resistance, Excellent
Resilience / Rebound, Good
Tear Resistance, Fair to Excellent
Vibration Dampening, Fair to Good

Thermal Properties

Low Temperature Range - 5.1 °C to - 34.4 °C
Minimum for Continuous Use (Static) - 51.1 °C
Brittle Point - 62.2 °C
High Temperature Range + 98.8 °C to + 121.1 °C
Maximum for Continuous Use (Static) + 107.2 °C

Environmental Performance

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

Chemical Resistance

Acids Dilute, Fair to Good
Acids Concentrated, Poor to Fair
Acids Organic (Dilute), Good
Acids Organic (Concentrated), Poor to Good
Acids Inorganic, Fair to Good
Alcohols, Good
Aldehydes, Poor to Fair
Alkalies Dilute, Fair to Good
Alkalies Concentrated, Fair to Good
Amines, Poor to Good
Animal & Vegetable Oils, Poor to Good
Brake Fluids, Non-Petroleum Based, Poor to Good
Diester Oils, Poor
Esters, Alkyl Phosphate, Poor
Esters, Aryl Phosphate, Poor
Ethers, Poor
Fuel, Aliphatic Hydrocarbon, Poor
Fuel, Aromatic Hydrocarbon, Poor
Fuel, Extended (Oxygenated), Poor
Halogenated Solvents, Poor
Hydrocarbon, Halogenated, Poor
Ketones, Poor to Good
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, Poor
Solvent Resistance, Poor



M. I. PANAGIOTARAKOS & Co

Phone: (30) 21 0555 9927-8
Fax: (30) 21 055 9926
Email: info@panagiotarakos.eu

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