

Abbreviation NBR

Chemical Definition Acrylonitrile Butadiene

Physical & Mechanical Properties

Durometer or Hardness Range 20 – 95 Shore A
Tensile Strength Range 35 - 245 kg/cm²
Elongation (Range %) 350 % – 650 %
Abrasion Resistance, Good to Excellent
Adhesion to Metal, Excellent
Adhesion to Rigid Materials, Good to Excellent
Compression Set, Good to Excellent
Flex Cracking Resistance, Fair to Good
Impact Resistance, Fair to Good
Resilience / Rebound, Good
Tear Resistance, Good to Excellent
Vibration Dampening, Fair to Good

Thermal Properties

Low Temperature Range - 56,6 °C to -17,7 °C
Minimum for Continuous Use (Static) - 40 °C
Brittle Point -56,6 °C to -17,7 °C
High Temperature Range + 98,8° C to + 121,1° C
Maximum for Continuous Use (Static) + 121,1 °C

Environmental Performance

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

Chemical Resistance

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



M.I. PANAGIOTARAKOS & Co

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

Passion For Quality