

Abbreviation XNBR

Chemical Definition Carboxylated Nitrile

Physical & Mechanical Properties

Durometer or Hardness Range 50 – 90 Shore A
Tensile Strength Range 70 - 245 kg/cm²
Elongation (Range %) 250 % – 600 %
Abrasion Resistance, Excellent
Adhesion to Metal, Good to Excellent
Adhesion to Rigid Materials, Good to Excellent
Compression Set, Fair to Good
Flex Cracking Resistance, Fair
Impact Resistance, Good to Excellent
Resilience / Rebound, Fair to Good
Tear Resistance, Excellent
Vibration Dampening, Fair to Good

Thermal Properties

Low Temperature Range - -45,5 °C to - 28,8 °C
Minimum for Continuous Use (Static) - 40 °C
Brittle Point - 45,5 °C to -28,8 °C
High Temperature Range + 98,8 °C to + 121,1 °C
Maximum for Continuous Use (Static) + 121,1 °C

Environmental Performance

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

Chemical Resistance

Acids, Dilute, Good
Acids, Concentrated, Fair to Good
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
Ketones, Poor
Lacquer Solvents, Fair
LP Gases & Fuel Oils, Good to Excellent
Mineral Oils, Good to 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



M.I. PANAGIOTARAKOS & Co

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

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