

Abbreviation FKM

Chemical Definition

Vinylidene fluoride hexafluoropropylene

Physical & Mechanical Properties

Durometer or Hardness Range 50 – 95 Shore A
Tensile Strength Range 35 - 140 kg/cm²
Elongation (Range %) 400 % – 500 %
Abrasion Resistance, Fair to Good
Adhesion to Metal, Good to Excellent
Adhesion to Rigid Materials, Fair to Good
Compression Set, Good to Excellent
Flex Cracking Resistance, Fair to Good
Impact Resistance, Good
Resilience / Rebound, Poor to Fair
Tear Resistance, Fair to Good
Vibration Dampening, Fair to Good

Thermal Properties

Low Temperature Range -34,4 °C to -17,7 °C
Minimum for Continuous Use (Static) + 12,2 °C to - 34,4 °C
Brittle Point -17,7 °C to - 40 °C
High Temperature Range + 232,2 °C to + 260 °C
Maximum for Continuous Use (Static) + 260 °C

Environmental Performance

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

Chemical Resistance

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



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