Fluorosilicone (FVMQ)

ASTM D1418 & ISO 1629 Designation: FVMQ ASTM D2000, SAE J200 Type/Class: FK Mil-R-3065 (Mil-Std 417) Class: TA



Advantages: Superior as static seal. Resists solvents, fuel and oil while maintaining low compression set and high resiliency. Excellent weathering, ozone and heat resistance. Good for special applications where general resistance to oxidizing chemicals, aromatic and chlorinated solvent bases are required.

Limitations: High friction tendencies, limited strength and poor abrasion resistance disqualifies it for dynamic uses.

Physical & Mechanical Properties

Durometer or Hardness Range: 40-80 Shore A Tensile Strength Range: 500 - 1,500 PSI Elongation (Range%): 150% - 600% Abrasion Resistance: Poor Adhesion to Metal: Good Adhesion to Rigid Materials: Good Compression Set: Very Good Flex Cracking Resistance: Very Good Impact Resistance: Fair Resilience/Rebound: Good Tear Resistance: Poor Vibration Dampening: Fair

Thermal Properties

General Temperature Range -100°F to 450°F Min. for continuous Use (Static): -60°F Brittle Point: -90°F Max. for Continuous Use (Static): 350°F

Environmental Performance

Colorability: Excellent Flame Resistance: Excellent Gas Permeability: Poor Odor: Good Ozone Resistance: Excellent Oxidation Resistance: Excellent Radiation Resistance: Good Steam Resistance: Fair Sunlight Resistance: Very Good Weather Resistance: Excellent Water Resistance: Very Good

Chemical Resistance Acids, Dilute: Very Good Acids, Concentrated: Poor Acids, Organic (Dilute): ---Acids, Organic (Concentrated): ---Alcohols: Good Aldehydes: Poor Alkalies, Dilute: Very Good Alkalies, Concentrated: Very Good Amines: Poor Animal & Vegetable Oils: Very Good Brake Fluids, Non-Petroleum Based: Poor **Diester Oils: Very Good** Esters, Alkyl Phosphate: Fair to Poor Esters, Aryl Phosphate: Fair to Poor Esthers: ---Fuel, Aliphatic Hydrocarbon: Very Good Fuel, Aromatic Hydrocarbon: Fair to Good Fuel, Extended (Oxygenated): Good Halogenated Solvents: Good to Excellent Hydrocarbon, Halogenated: Poor Ketones (MEK, acetone): Poor Lacquer Solvents: Good LP Gases & Fuel Oils: Poor Mineral Oils: Very Good Oil Resistance: Good Petroleum Aromatic: Very Good Petroleum Non-Aromatic: Very Good Refrigerant Ammonia: Poor Refrigerant Halofluorocarbons: ---Refrigerant Halofluorocarbons w/ Oil: ---Silicone Oil: Very Good

Solvent Resistance: Excellent