



Rubber Material Selection Guide FVMQ or Fluorosilicone Rubber

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|--------------------------------|------------------------------|
| ■ Abbreviation | FVMQ |
| ■ ASTM D-2000 Classification | FK |
| ■ Chemical Definition | Fluorovinyl Methyl Silioxane |
| ■ RRP Compound Number Category | 17-0000 Series |

Physical & Mechanical Properties

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|-------------------------------|-----------------|
| ■ Durometer or Hardness Range | 35 – 80 Shore A |
| ■ Tensile Strength Range | 200 – 1,500 PSI |
| ■ Elongation (Range %) | 100 % – 480 % |
| ■ Abrasion Resistance | Poor |
| ■ Adhesion to Metal | Good |
| ■ Adhesion to Rigid Materials | Fair to Good |
| ■ Compression Set | Fair to Good |
| ■ Flex Cracking Resistance | Poor to Good |
| ■ Impact Resistance | Poor to Good |
| ■ Resilience / Rebound | Poor to Fair |
| ■ Tear Resistance | Poor to Good |
| ■ Vibration Dampening | Good |

Chemical Resistance

- | | |
|---------------------------------|-------------------|
| ■ Acids, Dilute | Excellent |
| ■ Acids, Concentrated | Good |
| ■ Acids, Organic (Dilute) | Good |
| ■ Acids, Organic (Concentrated) | Fair |
| ■ Acids, Inorganic | Fair |
| ■ Alcohol's | Fair to Excellent |



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Chemical Resistance

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



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Thermal Properties

■ Low Temperature Range	- 85° F to - 70° F
■ Minimum for Continuous Use (Static)	- 80° F
■ Brittle Point	- 85° F
■ High Temperature Range	+ 400° F to + 450° F
■ Maximum for Continuous Use (Static)	+ 450° F

Environmental Performance

■ Colorability	Good to Excellent
■ Flame Resistance	Excellent
■ Gas Permeability	Poor to Good
■ Odor	Good
■ Ozone Resistance	Excellent
■ Oxidation Resistance	Excellent
■ Radiation Resistance	Fair to Excellent
■ Steam Resistance	Fair
■ Sunlight Resistance	Excellent
■ Taste Retention	Good
■ Weather Resistance	Excellent
■ Water Resistance	Excellent

For assistance in identifying the appropriate polymer or material, or to develop and formulate a polyacrylate / acrylic rubber compound to meet your specific application and performance requirements, please contact Robinson Rubber Products at e-mail: sales@robinsonrubber.com or phone: +1-763-535-6737.

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