

FLUOROELASTOMER VITON®

◆ Physical & Mechanical Properties

▪ Durometer or Hardness Range	50 – 95 Shore A
▪ Tensile Strength Range	500 – 2,000 PSI
▪ 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

◆ 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

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◆ Chemical Resistance

▪ 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
▪ Silicone Oil	Excellent
▪ Solvent Resistance	Excellent

FLUOROELASTOMER VITON®

◆ **Thermal Properties**

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|---------------------------------------|----------------------|
| ▪ Low Temperature Range | -30° F to 0° F |
| ▪ Minimum for Continuous Use (Static) | + 10° F to - 30° F |
| ▪ Brittle Point | 0° F to - 40° F |
| ▪ High Temperature Range | + 450° F to + 500° F |
| ▪ Maximum for Continuous Use (Static) | + 500° F |

◆ **Environmental Performance**

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|------------------------|-------------------|
| ▪ Colorability | Good to Excellent |
| ▪ Flame Resistance | Good to Excellent |
| ▪ Gas Permeability | Good to Excellent |
| ▪ Odor | Good |
| ▪ Ozone Resistance | Excellent |
| ▪ Oxidation Resistance | Excellent |
| ▪ Radiation Resistance | Fair to Good |
| ▪ Steam Resistance | Good to Excellent |
| ▪ Sunlight Resistance | Good to Excellent |
| ▪ Taste Retention | Fair to Good |
| ▪ Weather Resistance | Excellent |
| ▪ Water Resistance | Excellent |

For assistance in identifying the appropriate polymer or material, or to develop and formulate a fluorocarbon / fluoroelastomer rubber compound to meet your specific application and performance requirements, please contact Alva Rubber Products at e-mail: ventas@alvarubber.com.mx or phone: (55) 21 59 72 73

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