# Abbreviation VMQ, PMQ, PVMQ

## Chemical Definition Polydimethylsiloxane

## Physical & Mechanical Properties

Durometer or Hardness Range 20 - 90 Shore A
Tensile Strength Range 14 - 105 kg/cm2
Elongation (Range %) 100 % - 900 %
Abrasion Resistance, Poor to Good
Adhesion to Metal, Good
Adhesion to Rigid Materials, Good
Compression Set, Good to Excellent
Flex Cracking Resistance, Poor to Good
Impact Resistance, Poor to Good
Resilience / Rebound, Good to Excellent
Tear Resistance, Poor to Good
Vibration Dampening, Fair to Good

## Thermal Properties

Low Temperature Range - 116,6 °C to - 67,7 °C Minimum for Continuous Use (Static) - 112,2 °C Brittle Point - 116,6 °C to - 51,1 °C High Temperature Range + 204,4 °C to + 287,7 °C Maximum for Continuous Use (Static) + 287,7 °C

#### **Environmental Performance**

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



#### Chemical Resistance

Acids, Dilute, Fair to Good

Acids, Concentrated, Poor to Fair

Acids, Organic (Dilute), Good

Acids, Organic (Concentrated), Fair

Acids, Inorganic, Fair to Good

Alcohol's, Fair to Good

Aldehydes, Good

Alkalies, Dilute, Poor to Good

Alkalies, Concentrated, Poor to Excellent

Amines, Good

Animal & Vegetable Oils, Good to Excellent

Brake Fluids, Non-Petroleum Based, Good

Diester Oils, Poor to Fair

Esters, Alkyl Phosphate, Good

Esters, Aryl Phosphate, Good

Ethers, Poor

Fuel, Aliphatic Hydrocarbon, Poor to Fair

Fuel, Aromatic Hydrocarbon, Poor

Fuel, Extended (Oxygenated), Poor

Halogenated Solvents, Poor

Hydrocarbon, Halogenated, Poor

Ketones, Poor

Lacquer Solvents, Poor

LP Gases & Fuel Oils, Fair

Mineral Oils, Poor

Oil Resistance, Fair

Petroleum Aromatic, Fair

Petroleum Non-Aromatic, Good

Refrigerant Ammonia, Excellent

Refrigerant Halofluorocarbons, Poor

Refrigerant Halofluorocarbons w/ Oil, Poor

Silicone Oil, Poor

Solvent Resistance, Poor

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