

Abbreviation CSM

Chemical Definition

Chlorosulfonated-polyethylene

Physical & Mechanical Properties

Durometer or Hardness Range 45 – 95 Shore A
Tensile Strength Range 70 - 210 kg/cm²
Elongation (Range %) 100 % – 800 %
Abrasion Resistance, Good to Excellent
Adhesion to Metal, Excellent
Adhesion to Rigid Materials, Excellent
Compression Set, Poor to Good
Flex Cracking Resistance, Fair to Good
Impact Resistance, Good to Very Good
Resilience / Rebound, Fair to Good
Tear Resistance, Fair to Good
Vibration Dampening, Fair to Good

Thermal Properties

Low Temperature Range - 51,1 °C to - 40 °C
Minimum for Continuous Use (Static) - 53,8 °C
Brittle Point - 56,6 °C
High Temperature Range + 107,2 °C to + 135 °C
Maximum for Continuous Use (Static) + 135 °C

Environmental Performance

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

Chemical Resistance

Acids, Dilute, Excellent
Acids, Concentrated , Good to Excellent
Acids, Organic (Dilute), Excellent
Acids, Organic (Concentrated), Good
Acids, Inorganic, Good to Excellent
Alcohols, Excellent
Aldehydes, Poor to Fair
Alkalies, Dilute, Good to Excellent
Alkalies, Concentrated, Good to Excellent
Amines, Poor
Animal & Vegetable Oils, Good
Brake Fluids, Non-Petroleum Based, Fair
Diester Oils, Poor
Esters, Alkyl Phosphate, Poor
Esters, Aryl Phosphate ,Fair
Ethers, Poor
Fuel, Aliphatic Hydrocarbon, Fair to Good
Fuel, Aromatic Hydrocarbon, Fair
Fuel, Extended (Oxygenated), Fair
Halogenated Solvents, Poor
Hydrocarbon, Halogenated, Poor
Ketones, Poor
Lacquer Solvents, Poor
LP Gases & Fuel Oils, Good
Mineral Oils Good to, Very Good
Oil Resistance, Fair to Good
Petroleum Aromatic, Poor
Petroleum Non-Aromatic, Fair
Refrigerant Ammonia, Good
Refrigerant Halofluorocarbons R-11, R-12, R-13
Refrigerant Halofluorocarbons w/ Oil R-11, R-12, R-22
Silicone Oil, Excellent
Solvent Resistance, Fair to Good



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