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Rubber Material Selection Guide CM or Chloropolyethylene

Abbreviation CM

ASTM D-2000 Classification
 CE, CH

Chemical Definition
 Chloropolyethylene

RRP Compound Number Category
 19-0000 Series

♦ Physical & Mechanical Properties

Durometer or Hardness Range
 40 – 90 Shore A

■ Tensile Strength Range 500 – 2,500 PSI

■ Elongation (Range %) 100 % – 700 %

Abrasion Resistance
 Good to Excellent

Adhesion to Metal
 Fair to Good

Adhesion to Rigid Materials
 Fair to Good

Compression Set
 Good to Excellent

Flex Cracking Resistance
 Fair to Good

Impact Resistance Good

Resilience / Rebound
 Fair to Good

Tear Resistance
 Poor to Good

Vibration Dampening
 Good

Chemical Resistance

Acids, Dilute
 Excellent

Acids, Concentrated
 Good to Excellent

Acids, Organic (Dilute)
 Poor to Good

Acids, Organic (Concentrated)
 Poor to Good

Acids, InorganicGood

Alcohol's Excellent



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• Chemical Resistance

AldehydesPoor

Alkalies, Dilute
 Excellent

Alkalies, Concentrated Excellent

AminesAnimal & Vegetable OilsFair to Good

Brake Fluids, Non-Petroleum Based

Diester Oils
 Poor

Esters, Alkyl Phosphate
 Good

Esters, Aryl Phosphate Good

EthersGood

Fuel, Aliphatic Hydrocarbon
 Fair To Good

Fuel, Aromatic HydrocarbonPoor to Fair

Fuel, Extended (Oxygenated)Fair to Good

Halogenated SolventsHydrocarbon, HalogenatedPoor

KetonesFair to Good

Lacquer SolventsFair

LP Gases & Fuel Oils
 Good to Excellent

Mineral Oils GoodOil Resistance Good

Petroleum AromaticGood

Petroleum Non-AromaticRefrigerant AmmoniaPoor to Good

Refrigerant Halofluorocarbons
 Poor to Good

Refrigerant Halofluorocarbons w/ Oil
 Good

Silicone Oil Good

Solvent Resistance

Poor



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♦ Thermal Properties

Low Temperature Range
 - 60° F to - 20° F

Minimum for Continuous Use (Static) - 60° F
 Brittle Point - 70° F

High Temperature Range + 250° to + 300° F

Maximum for Continuous Use (Static) + 300° F

♦ Environmental Performance

Colorability Excellent

Flame Resistance Good

Gas Permeability
 Good to Excellent

Odor
 Fair to Good

Ozone Resistance Excellent

Oxidation Resistance
 Excellent

Radiation Resistance
 Good to Excellent

Steam Resistance
 Poor

Sunlight Resistance
 Excellent

Taste Retention
 Fair to Good

Weather Resistance
 Excellent

Water Resistance
 Good to Excellent

For assistance in identifying the appropriate polymer or material, or to develop and formulate a CM / chloropolyethylene 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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