

RUBBER MATERIAL SELECTION GUIDE

CPE or Chloropolyethylene

Abbreviation	CPE
ASTM D-2000 Classification	CE, CH
Chemical Definition	Chloropolyethylene

PHYSICAL & MECHANICAL PROPERTIES

Durometer or Hardness Range	40 - 90 Shore A
Tensile Strength Range	500 - 2500 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

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° F 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

CHEMICAL RESISTANCE

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



**MOUNTVILLE
RUBBER CO.**