



## 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, Inorganic              | Good              |
| ■ Alcohol's                     | Excellent         |



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### Chemical Resistance

■ 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 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 polyacrylate / acrylic rubber compound to meet your specific application and performance requirements, please contact Robinson Rubber Products at e-mail: [sales@robinsonrubber.com](mailto:sales@robinsonrubber.com) or phone: +1-763-535-6737.

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