Rubber Material Selection Guide
CR or Neoprene®
Polychloroprene

- Abbreviation: CR
- ASTM D-2000 Classification: BC, BE
- Chemical Definition: Polychloroprene
- RRP Compound Number Category: 20000 Series

Physical & Mechanical Properties
- Durometer or Hardness Range: 20 – 95 Shore A
- Tensile Strength Range: 500 – 3,000 PSI
- Elongation (Range %): 100 % – 800 %
- Abrasion Resistance: Very Good to Excellent
- Adhesion to Metal: Excellent
- Adhesion to Rigid Materials: Good to Excellent
- Compression Set: Poor to Good
- Flex Cracking Resistance: Good
- Impact Resistance: Good to Excellent
- Resilience / Rebound: Fair to Good
- Tear Resistance: Good to Excellent
- Vibration Dampening: Good to Excellent

Chemical Resistance
- Acids, Dilute: Excellent
- Acids, Concentrated: Poor
- Acids, Organic (Dilute): Good to Excellent
- Acids, Organic (Concentrated): Poor to Good
- Acids, Inorganic: Good to Excellent
Chemical Resistance

- Alcohol’s: Excellent
- Aldehydes: Poor to Fair
- Alkalies, Dilute: Good
- Alkalies, Concentrated: Poor
- Amines: Poor to Good
- Animal & Vegetable Oils: Good
- Brake Fluids, Non-Petroleum Based: Fair
- Diester Oils: Poor
- Esters, Alkyl Phosphate: Poor
- Esters, Aryl Phosphate: Poor to Fair
- Ethers: Poor
- Fuel, Aliphatic Hydrocarbon: Poor to Good
- Fuel, Aromatic Hydrocarbon: Poor to Fair
- Fuel, Extended (Oxygenated): Fair
- Halogenated Solvents: Poor
- Hydrocarbon, Halogenated: Poor
- Ketones: Poor to Fair
- Lacquer Solvents: Poor
- LP Gases & Fuel Oils: Good
- Mineral Oils: Fair to Good
- Oil Resistance: Fair
- Petroleum Aromatic: Good
- Petroleum Non-Aromatic: Good
- Refrigerant Ammonia: Excellent
- Refrigerant Halofluorocarbons: R-11, R-12, R-13, R-21, R-22
- Refrigerant Halofluorocarbons w/ Oil: R-11, R-12, R-22
- Silicone Oil: Fair to Excellent
- Solvent Resistance: Fair
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♦ Thermal Properties
  - Low Temperature Range -70º F to -30º F
  - Minimum for Continuous Use (Static) -80º F
  - Brittle Point -85º F
  - High Temperature Range +200º F to +250º F
  - Maximum for Continuous Use (Static) +250º F

♦ Environmental Performance
  - Colorability Fair
  - Flame Resistance Fair to Good
  - Gas Permeability Fair to Good
  - Odor Fair to Good
  - Ozone Resistance Good to Excellent
  - Oxidation Resistance Good to Excellent
  - Radiation Resistance Fair to Good
  - Steam Resistance Fair to Good
  - Sunlight Resistance Good to Excellent
  - Taste Retention Fair to Good
  - Weather Resistance Fair to Good
  - Water Resistance Fair to Good

For assistance in identifying the appropriate polymer or material, or to develop and formulate a CR or Neoprene / polychloroprene 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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