

CR - Polychloroprene Rubber, Neoprene® Rubber

Hardness Range 20 to 95 Durometer Shore A

Temperature Range - 40° C to +100° C

Advantages in performance...

- for abrasion resistance, adhesion to metal & rigid materials, impact resistance, tear resistance, and vibration dampening.
- in dilute acids, dilute organic acids, alcohols, refrigerant ammonia, and silicone oil.
- for ozone resistance, oxidation resistance, and sunlight resistance.

Limitations in performance...

- for compression set.
- in concentrated acids, concentrated organic acids, aldehydes, concentrated alkalis, amines, diester oils, alkyl phosphate esters, aryl phosphate esters, ethers, aliphatic hydrocarbon fuels, aromatic hydrocarbon fuels, halogenated solvents, halogenated hydrocarbon, ketones, and lacquer solvents.

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Rubber Material Selection Guide CR or Neoprene® Polychloroprene

- Abbreviation CR
- ASTM D-2000 Classification BC, BE
- Chemical Definition Polychloroprene

◆ Physical & Mechanical Properties

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|-------------------------------|------------------------|
| • 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 |

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◆ 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 ILGA S.R.L at e-mail: ilga@ilgagomma.com or phone: +39 0456336521 / 0456336514.

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