Rubber Material Selection Guide
ACM or Polyacrylate
Acrylic Rubber

- Abbreviation: ACM
- ASTM D-2000 Classification: DF, DH
- Chemical Definition: Copolymer Ethyl Butyl Acrylate
- RRP Compound Number Category: 12-0000 Series

Physical & Mechanical Properties
- Durometer or Hardness Range: 40 – 90 Shore A
- Tensile Strength Range: 500 – 2,500 PSI
- Elongation (Range %): 100 % – 450 %
- Abrasion Resistance: Fair to Good
- Adhesion to Metal: Fair to Good
- Adhesion to Rigid Materials: Fair to Good
- Compression Set: Poor to Good
- Flex Cracking Resistance: Fair to Good
- Impact Resistance: Poor
- Resilience / Rebound: Fair to Good
- Tear Resistance: Poor to Good
- Vibration Dampening: Good to Excellent

Chemical Resistance
- Acids, Dilute: Fair
- Acids, Concentrated: Poor to Fair
- Acids, Organic (Dilute): Poor
- Acids, Organic (Concentrated): Poor
- Acids, Inorganic: Fair
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♦ Chemical Resistance

- Alcohol’s Poor
- Aldehydes Poor
- Alkalies, Dilute Fair
- Alkalies, Concentrated Fair
- Amines Poor
- Animal & Vegetable Oils Good
- Brake Fluids, Non-Petroleum Based Poor
- Diester Oils Good
- Esters, Alkyl Phosphate Poor
- Esters, Aryl Phosphate Poor
- Ethers Poor
- Fuel, Aliphatic Hydrocarbon Excellent
- Fuel, Aromatic Hydrocarbon Poor to Good
- Fuel, Extended (Oxygenated) Fair to Good
- Halogenated Solvents Poor to Good
- Hydrocarbon, Halogenated Poor to Good
- Ketones Poor to Good
- Lacquer Solvents Poor to Good
- LP Gases & Fuel Oils Good
- Mineral Oils Good to Excellent
- Oil Resistance Excellent
- Petroleum Aromatic Fair
- Petroleum Non-Aromatic Good
- Refrigerant Ammonia Fair
- Refrigerant Halofluorocarbons R-11, R-12, R-13
- Refrigerant Halofluorocarbons w/ Oil R-11, R-12, R-13, R-22
- Silicone Oil Excellent
- Solvent Resistance Good
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♦ Thermal Properties
  - Low Temperature Range - 30º F to 0º F
  - Minimum for Continuous Use (Static) - 30º F
  - Brittle Point - 40º F
  - High Temperature Range + 350º F to + 400º F
  - Maximum for Continuous Use (Static) + 400º F

♦ Environmental Performance
  - Colorability Good
  - Flame Resistance Poor
  - Gas Permeability Good to Excellent
  - Odor Fair to Good
  - Ozone Resistance Good to Excellent
  - Oxidation Resistance Excellent
  - Radiation Resistance Poor to Good
  - Steam Resistance Poor
  - Sunlight Resistance Good to Excellent
  - Taste Retention Fair to Good
  - Weather Resistance Excellent
  - Water Resistance 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 or phone: +1-763-535-6737.

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