Rubber Material Selection Guide
EA or Vamac®
Ethylene Acrylic Rubber

- Abbreviation: EA
- ASTM D-2000 Classification: EA
- Chemical Definition: Acrylic
- RRP Compound Number Category: 18-0000 Series

Physical & Mechanical Properties
- Durometer or Hardness Range: 35 – 95 Shore A
- Tensile Strength Range: 500 – 3,000 PSI
- Elongation (Range %): 200 % – 850 %
- Abrasion Resistance: Good to Excellent
- Adhesion to Metal: Good
- Adhesion to Rigid Materials: Good
- Compression Set: Poor to Good
- Flex Cracking Resistance: Good
- Impact Resistance: Good to Very Good
- Resilience / Rebound: Poor to Fair
- Tear Resistance: Good to Excellent
- Vibration Dampening: Good

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

- Aldehydes: Fair to Good
- Alkalies, Dilute: Good to Excellent
- Alkalies, Concentrated: Poor
- Amines: Good
- Animal & Vegetable Oils: Good
- Brake Fluids, Non-Petroleum Based: Poor
- Diester Oils: Poor
- Esters, Alkyl Phosphate: Poor
- Esters, Aryl Phosphate: Poor
- Ethers: Poor
- Fuel, Aliphatic Hydrocarbon: Good
- Fuel, Aromatic Hydrocarbon: Poor to Fair
- Fuel, Extended (Oxygenated): Fair
- Halogenated Solvents: Poor to Good
- Hydrocarbon, Halogenated: Poor
- Ketones: Poor
- Lacquer Solvents: Poor
- LP Gases & Fuel Oils: Poor
- Mineral Oils: Poor
- Oil Resistance: Poor
- Petroleum Aromatic: Poor
- Petroleum Non-Aromatic: Poor
- Refrigerant Ammonia: Poor to Good
- Refrigerant Halofluorocarbons: Poor to Good
- Refrigerant Halofluorocarbons w/ Oil: Poor
- Silicone Oil: Good to Excellent
- Solvent Resistance: Poor
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♦ Thermal Properties
- Low Temperature Range - 55º F to - 30º F
- Minimum for Continuous Use (Static) - 50º F
- Brittle Point - 75º F
- High Temperature Range + 250º F to + 350º F
- Maximum for Continuous Use (Static) + 350º F

♦ Environmental Performance
- Colorability Good
- Flame Resistance Poor
- Gas Permeability Excellent
- Odor Good
- Ozone Resistance Excellent
- Oxidation Resistance Excellent
- Radiation Resistance Good
- Steam Resistance Poor to Fair
- 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 an EA / ethylene 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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