

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	

Fair to Good

Poor to Good

Fair to Good

Fair to Good

Poor to Good

Good to Excellent

Poor

- Adhesion to Rigid Materials
- Compression Set
- Flex Cracking Resistance
- Impact Resistance
- Resilience / Rebound
- Tear Resistance
- Vibration Dampening

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	- 30° F to 0° F
Minimum for Continuous Use (Static)	- 30º F
Brittle Point	- 40º F
High Temperature Range	+ 350° F to + 400°
Maximum for Continuous Use (Static)	+ 400º F

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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