# Polyacrylate Acrylic Rubber (ACM)

ASTM D1418 & ISO 1629 Designation: ACM, ANM ASTM D2000, SAE J200 Type/Class: DF, DH Mil-R-3065 (Mil-Std 417) Class: TB



Advantages: Good resistance to high temperatures in both air and oil environments; ozone and oxygen and light resistant.

Limitations: Poor chemical resistance, poor water and moisture resistance, physical properties generally low, poor resistance to acids and bases, difficult to process.

## **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

# **Thermal Properties**

General Temperature Range -30°F to 400°F

Min. for continuous Use (Static): -30°F

Brittle Point: -40°F

Max. for Continuous Use (Static): 400°F

#### **Environmental Performance**

Colorability: Good

Flame Resistance: Poor

Gas Permeability: Good to Excellent

Odor: Fair to Good

Ozone Resistance: Good to Excellent

Oxidation Resistance: Good to Excellent

Radiation Resistance: Poor to Good

Steam Resistance Poor

Sunlight Resistance: Good to Excellent

Weather Resistance: Excellent

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Water Resistance: Excellent

## **Chemical Resistance**

Acids, Dilute: Fair

Acids, Concentrated: Poor to Fair

Acids, Organic (Dilute): Poor

Acids, Organic (Concentrated): Poor

Alcohols: 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

Esthers: 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 (MEK, acetone): 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, R22

Silicone Oil: Excellent

Solvent Resistance: Good

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