

## ***EPDM or Ethylene Propylene***

### ◆ **Physical & Mechanical Properties**

▪ Durometer or Hardness Range	50 – 95 Shore A
▪ Tensile Strength Range	500 – 2,000 PSI
▪ Elongation (Range %)	400 % – 500 %
▪ Abrasion Resistance	Fair to Good
▪ Adhesion to Metal	Good to Excellent
▪ Adhesion to Rigid Materials	Fair to Good
▪ Compression Set	Good to Excellent
▪ Flex Cracking Resistance	Fair to Good
▪ Impact Resistance	Good
▪ Resilience / Rebound	Poor to Fair
▪ Tear Resistance	Fair to Good
▪ Vibration Dampening	Fair to Good

### ◆ **Chemical Resistance**

▪ Acids, Dilute	Good to Excellent
▪ Acids, Concentrated	Good to Excellent
▪ Acids, Organic (Dilute)	Fair to Good
▪ Acids, Organic (Concentrated)	Poor to Good
▪ Acids, Inorganic	Good to Excellent

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### ◆ **Chemical Resistance**

▪ Aldehydes	Good to Excellent
▪ Alkalies, Dilute	Excellent
▪ Alkalies, Concentrated	Excellent
▪ Amines	Fair to Good
▪ Animal & Vegetable Oils	Good
▪ Brake Fluids, Non-Petroleum Based	Good to Excellent
▪ Diester Oils	Poor
▪ Esters, Alkyl Phosphate	Excellent
▪ Esters, Aryl Phosphate	Excellent
▪ Ethers	Fair
▪ Fuel, Aliphatic Hydrocarbon	Poor
▪ Fuel, Aromatic Hydrocarbon	Poor
▪ Fuel, Extended (Oxygenated)	Poor
▪ Halogenated Solvents	Poor
▪ Hydrocarbon, Halogenated	Poor
▪ Ketones	Good to Excellent
▪ Lacquer Solvents	Poor
▪ LP Gases & Fuel Oils	Poor
▪ Mineral Oils	Poor
▪ Oil Resistance	Poor
▪ Petroleum Aromatic	Poor
▪ Petroleum Non-Aromatic	Poor
▪ Refrigerant Ammonia	Good
▪ Silicone Oil	Excellent
▪ Solvent Resistance	Poor

## ***EPDM or Ethylene Propylene***

### ◆ **Thermal Properties**

- |                                       |                      |
|---------------------------------------|----------------------|
| ▪ Low Temperature Range               | - 60° F to - 40° F   |
| ▪ Minimum for Continuous Use (Static) | - 60° F              |
| ▪ Brittle Point                       | - 70° F              |
| ▪ High Temperature Range              | + 220° F to + 300° F |
| ▪ Maximum for Continuous Use (Static) | + 300° F             |

### ◆ **Environmental Performance**

- |                        |                   |
|------------------------|-------------------|
| ▪ Colorability         | Good to Excellent |
| ▪ Flame Resistance     | Poor              |
| ▪ Gas Permeability     | Fair to Good      |
| ▪ Odor                 | Good              |
| ▪ Ozone Resistance     | Good to Excellent |
| ▪ Oxidation Resistance | Excellent         |
| ▪ Radiation Resistance | Good to Excellent |
| ▪ Steam Resistance     | Excellent         |
| ▪ Sunlight Resistance  | Excellent         |
| ▪ Taste Retention      | Good to Excellent |
| ▪ Weather Resistance   | Excellent         |
| ▪ Water Resistance     | Excellent         |

For assistance in identifying the appropriate polymer or material, or to develop and formulate an EP or ethylene eropylene rubber compound to meet your specific application and performance requirements, please contact Alva Rubber Products at e-mail: [ventas@alvarubber.com.mx](mailto:ventas@alvarubber.com.mx) or phone:(55) 21 59 72 73

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