## Rubber Molding Material Selection Chart

### General Information

- **Chemical Name**
  - Nitrile
  - Ethylene Propylene
  - Polysiloxane
  - Polychloroprene
  - Polyisoprene
  - Styrene Butadiene
  - Fluorocarbon
  - Hydrogenated Nitrile
  - Isobutylene Isoprene
  - Fluorosilicone
  - Urethane

- **Common Name**
  - Buna-N
  - EPDM, EP, EPT, EPR
  - Silicone, VMQ, PVN
  - Neoprene
  - Natural Rubber
  - SBR
  - FKM, Fluorel®
  - HNBR
  - Butyl
  - Fluorosilicone
  - Urethane

- **ASTM D 1418**
  - Temperature Range °F
    - -40°F to 250°F
    - -60°F to 300°F
    - -50°F to 250°F
  - Temperature Range °C
    - -40°C to 121°C
    - -51°C to 149°C
    - -46°C to 121°C

- **MIL-STD-1417**
  - Temperature Range °F
    - -50°F to 250°F
  - Temperature Range °C
    - -46°C to 121°C

- **ISO/DIN 1629**
  - Temperature Range °F
    - -60°F to 250°F
  - Temperature Range °C
    - -51°C to 121°C

- **ASTM D2000 / SAE J 2000**
  - Temperature Range °F
    - -30°F to 330°F
  - Temperature Range °C
    - -34°C to 166°C

### Advantages

- **Economical Price**
- **Tear Resistance**
- **Metal Adhesion**
- **Compression Set**
- **Rebound**
- **Abrasion Resistance**
- **Solvent Resistance**
- **Oil/Grease Resistance**
- **Weather/Sunlight Resistance**
- **Ozone Resistance**
- **Electrical Resistance**
- **Permeability to Gases**
- **Water Resistance**
- **Heat Resistance**
- **Flame Resistance**
- **Low Temperature Resistance**

### Generally Resistant To

- **Oils, Fats, Greases, Hydraulic Fluids, Chemicals, Solvents**
- **Superb against weather, ozone, water, and heat aging**
- **High temperatures, weather, ozone, and electrical**
- **Abrasion, weather, lubricating oils, and flame**
- **Abrasion, tear, alcohols, ketones, water, and electrical conductivity**
- **Abrasions, water, wet or dry organic acids**
- **Gasoline, oil, fuels, acids, UV light, ozone**
- **Oil, heat, fuel, weather, and ozone**
- **Gas permeation, weather, ozone, water, and electrical**
- **High/low temperatures, fuel, oil, solvents**
- **Oil and grease, petroleum based products, weather**

### Notes

- All recommendations in this table should be verified and tested under your specific operating conditions prior to final specification.
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