

## Precision Polymer Engineering N60M Nitrile Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

Nitrile Butadiene Rubber (NBR) 55-65 °IRHD. Medium acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. To meet specification BS2751 BA60. Also meets obsolescent specification BS3222M. Applications: Excellent resistance to petroleum based oils and fuels. Excellent compression set, tear and abrasion resistance. Good water resistance, but poor against ozone and weather.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Precision-Polymer-Engineering-N60M-Nitrile-Rubber.php](http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-N60M-Nitrile-Rubber.php)

| Mechanical Properties   | Metric   | English  | Comments   |
|-------------------------|----------|----------|--|
| Hardness, Shore A       | 62       | 62       | °IRHD; ASTM D1415                                  |
|                         | 67       | 67       | °IRHD, +5 change after 70 hours @ 70°C; ASTM D1415 |
| Tensile Strength, Yield | 8.50 MPa | 1230 psi | -15% change after 70 hours @ 70°C; ASTM D412       |
|                         | 10.0 MPa | 1450 psi | ASTM D412  |
| Elongation at Break     | 255 %    | 255 %    | -15% change after 70 hours @ 70°C; ASTM D412       |
|                         | 300 %    | 300 %    | ASTM D412  |
| Compression Set         | 15 %     | 15 %     | 24 hours @ 70°C; ASTM D395                         |

| Thermal Properties               | Metric    | English   | Comments  |
|----------------------------------|-----------|-----------|---|
| Maximum Service Temperature, Air | 120 °C    | 248 °F    |   |
| Minimum Service Temperature, Air | -40.0 °C  | -40.0 °F  |   |
|                                  | -25.0 °C  | -13.0 °F  | Temperature at which stiffness does not exceed 70 Mpa |
| Flash Point                      | >= 300 °C | >= 572 °F |   |

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