

## Precision Polymer Engineering N40M Nitrile Rubber

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

### Material Notes:

Nitrile Butadiene Rubber, 35-45 °IRHD. Medium acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. To meet British Standard BS2751 BA40. 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-N40M-Nitrile-Rubber.php](http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-N40M-Nitrile-Rubber.php)

| Mechanical Properties   | Metric   | English  | Comments   |
|-------------------------|----------|----------|--|
| Hardness, Shore A       | 40       | 40       | °IRHD; ASTM D1415                                  |
|                         | 45       | 45       | °IRHD, +5 change after 70 hours @ 70°C; ASTM D1415 |
| Tensile Strength, Yield | 5.60 MPa | 812 psi  | -20% change after 70 hours @ 70°C; ASTM D412       |
|                         | 7.00 MPa | 1020 psi | ASTM D412  |
| Elongation at Break     | 390 %    | 390 %    | -35% change after 70 hours @ 70°C; ASTM D412       |
|                         | 600 %    | 600 %    | ASTM D412  |
| Compression Set         | 30 %     | 30 %     | 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  |   |
|                                  | -30.0 °C  | -22.0 °F  | Temperature at which stiffness does not exceed 70 Mpa |
| Flash Point                      | >= 300 °C | >= 572 °F |   |

## Contact Songhan Plastic Technology Co.,Ltd.

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