

## Precision Polymer Engineering N90K Nitrile Rubber

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

### Material Notes:

Peroxide cured Nitrile Rubber, 85-95 °IRHD. Copolymer of acrylonitrile and butadiene. ASTM designation = NBR. ISO designation = NBR. ASTM D2000/SAE J200 line call-out M7BG910, B14, EA14, EF11, EF21, EO14, EO34, F16. Applications: Excellent resistance in sealing applications for 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-N90K-Nitrile-Rubber.php](http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-N90K-Nitrile-Rubber.php)

| Mechanical Properties   | Metric          | English         | Comments   |
|-------------------------|-----------------|-----------------|--|
| Hardness, Shore A       | 87              | 87              | °IRHD; ASTM D1415                                    |
|                         | 77 - 97         | 77 - 97         | °IRHD, ±10 change after 70 hours @ 100°C; ASTM D1415 |
| Tensile Strength, Yield | 10.0 MPa        | 1450 psi        | ASTM D412  |
|                         | 8.00 - 12.0 MPa | 1160 - 1740 psi | ±20% change after 70 hours @ 100°C; ASTM D412        |
| Elongation at Break     | 60.0 %          | 60.0 %          | -40% change after 70 hours @ 100°C; ASTM D412        |
|                         | 100 %           | 100 %           | ASTM D412  |
| Compression Set         | 25 %            | 25 %            | 24 hours @ 100°C; ASTM D395                          |

| Thermal Properties               | Metric    | English   | Comments                    |
|----------------------------------|-----------|-----------|-----------------------------|
| Maximum Service Temperature, Air | 120 °C    | 248 °F    |                             |
| Minimum Service Temperature, Air | -35.0 °C  | -31.0 °F  | Non-brittle after 3 minutes |
|                                  | -30.0 °C  | -22.0 °F  |                             |
| Flash Point                      | >= 300 °C | >= 572 °F |                             |

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