

Precision Polymer Engineering N80M Nitrile Rubber

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

Material Notes:

Nitrile Rubber, 75-85 °IRHD. Meets British Standard BS2751 BA80. Medium acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. ASTM designation = NBR. ISO designation = NBR. 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-N80M-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	°IRHD; ASTM D1415
	89	89	°IRHD, +5 change after 70 hours @ 70°C; ASTM D1415
Tensile Strength, Yield	12.5 MPa	1810 psi	ASTM D412
	13.75 MPa	1994 psi	10% change after 70 hours @ 70°C; ASTM D412
Elongation at Break	150 %	150 %	ASTM D412
	165 %	165 %	10% change after 70 hours @ 70°C; ASTM D412
Compression Set	20 %	20 %	24 hours @ 70°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 °C	248 °F	
Minimum Service Temperature, Air	-30.0 °C	-22.0 °F	
	-15.0 °C	5.00 °F	Temperature at which stiffness does not exceed 70 Mpa
Flash Point	>= 300 °C	>= 572 °F	

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