

Precision Polymer Engineering N90B Nitrile Rubber

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

Material Notes:

General purpose, Nitrile Rubber, 85-95 °IRHD. Copolymer of acrylonitrile and butadiene. ASTM & ISO designation = NBR. ASTM D2000 line call-out: M4CH910, A25, B14, EF31, EO15, EO35, F16. 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-N90B-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	°IRHD; ASTM D1415
	92	92	°IRHD, +5 change after 70 hours @ 100°C; ASTM D1415
Tensile Strength, Yield	13.5 MPa	1960 psi	-10% change after 70 hours @ 100°C; ASTM D412
	15.0 MPa	2180 psi	ASTM D412
Elongation at Break	78.0 %	78.0 %	-40% change after 70 hours @ 100°C; ASTM D412
	130 %	130 %	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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