

Precision Polymer Engineering N70Z Nitrile Rubber

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

Material Notes:

Carboxylated Nitrile Butadiene Rubber (XNBR), 65-75 °IRHD. Terpolymer of acrylonitrile, butadiene and methacrylic acid. Applications:

Carboxylated Nitrile (XNBR) offers much higher modulus, increased tensile strength and superior abrasion and tear resistance over standard NBR. Widely used in applications requiring oil resistance, high strength and abrasion resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-N70Z-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	°IRHD; ASTM D1415
	85	85	°IRHD, +15 change after 70 hours @ 100°C; ASTM D1415
Tensile Strength, Yield	14.4 MPa	2090 psi	-20% change after 70 hours @ 100°C; ASTM D412
	18.0 MPa	2610 psi	ASTM D412
Elongation at Break	150 %	150 %	-40% change after 70 hours @ 100°C; ASTM D412
	250 %	250 %	ASTM D412
Compression Set	30 %	30 %	24 hours @ 100°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	
	-40.0 °C	-40.0 °F	Non-brittle after 3 minutes
Flash Point	>= 300 °C	>= 572 °F	

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