

Precision Polymer Engineering N70U Nitrile Rubber

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

Material Notes:

Nitrile Butadiene Rubber (NBR) 65-75 °IRHD. Copolymer of acrylonitrile and butadiene. To meet Aerospace Material Specification DTD458A Grade A1 (specification inactive for new design). Applications: Synthetic rubber for use with mineral base aviation hydraulic fluid.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-N70U-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	°IRHD; ASTM D1415
	60 - 80	60 - 80	°IRHD, ±10 change after 70 hours @ 100°C; ASTM D1415
Tensile Strength, Yield	6.46 MPa	937 psi	-15% change after 70 hours @ 100°C; ASTM D412
	7.60 MPa	1100 psi	ASTM D412
Elongation at Break	210 %	210 %	-30% change after 70 hours @ 100°C; ASTM D412
	300 %	300 %	ASTM D412
Compression Set	7.0 %	7.0 %	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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