

Precision Polymer Engineering N85U Nitrile Rubber

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

Material Notes:

Nitrile Butadiene Rubber (NBR) 75-95 °IRHD. Copolymer of acrylonitrile and butadiene. To meet Aerospace Material Specification DTD458A Grade B1 (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-N85U-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	°IRHD; ASTM D1415
	75 - 95	75 - 95	°IRHD, ±10 change after 150 hours @ 100°C; ASTM D1415
Tensile Strength, Yield	7.22 MPa	1050 psi	-5% change after 150 hours @ 100°C; ASTM D412
	7.60 MPa	1100 psi	ASTM D412
Elongation at Break	75 %	75 %	-25% change after 150 hours @ 100°C; ASTM D412
	100 %	100 %	ASTM D412
Compression Set	10 %	10 %	24 hours @ 70°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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