

Precision Polymer Engineering N80E Nitrile Rubber

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

Material Notes:

High Nitrile Rubber, 73-83 °IRHD. High acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. ASTM designation = NBR. ISO designation = NBR. Aerospace Material Specification DTD5509 Grade B. (Inactive for new design). Applications: Synthetic rubber resistant to engine lubricating oils, greases and fuels.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-N80E-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	°IRHD; ASTM D1415
Tensile Strength, Yield	11.2 MPa	1620 psi	ASTM D412
Elongation at Break	277 %	277 %	ASTM D412
Compression Set	15.8 %	15.8 %	24 hours @ 120°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	
	-35.0 °C	-31.0 °F	Minimum temperature without fracturing after immersion in fluids
Flash Point	>= 300 °C	>= 572 °F	

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