

Precision Polymer Engineering N55E Nitrile Rubber

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

Material Notes:

Acrylonitrile Butadiene Rubber (NBR) 50-60 °IRHD. High acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. To meet Aerospace Material Specification DTD5509 Grade D (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-N55E-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	°IRHD; ASTM D1415
	60	60	°IRHD, +5 change after 70 hours @ 70°C; ASTM D1415
Tensile Strength, Yield	5.865 MPa	850.6 psi	-15% change after 70 hours @ 70°C; ASTM D412
	6.90 MPa	1000 psi	ASTM D412
Elongation at Break	187.5 %	187.5 %	-25% change after 70 hours @ 70°C; ASTM D412
	250 %	250 %	ASTM D412
Compression Set	33 %	33 %	24 hours @ 120°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 °C	248 °F	
Minimum Service Temperature, Air	-45.0 °C	-49.0 °F	Non-brittle after 3 minutes
	-40.0 °C	-40.0 °F	
Flash Point	>= 300 °C	>= 572 °F	

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