

Precision Polymer Engineering N70F Nitrile Rubber

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

Material Notes:

Nitrile Butadiene Rubber (NBR), 65-75 °IRHD. Copolymer of acrylonitrile and butadiene. Formulated using only those ingredients determined by the United States Federal Food and Drug Administration (FDA) to be in accordance with Code of Federal Regulations Title 21 (CFR21), Section 177.2600 and Section 180.22. Water, Hexane and acrylonitrile extraction tested. Tested to 3A requirements. Applications: Repeated use in equipment associated with the production of foodstuffs intended for human consumption.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-N70F-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	°IRHD; ASTM D1415
Tensile Strength, Yield	10.0 MPa	1450 psi	ASTM D412
Elongation at Break	250 %	250 %	ASTM D412
Compression Set	22 %	22 %	24 hours @ 70°C; ASTM D395
	28 %	28 %	24 hours @ 100°C

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	

Descriptive Properties	Value	Comments
Extraction Test, 21 CFR 177.2600	pass	Distilled Water
	pass	n-Hexane
	pass	Acrylonitrile monomer

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