

Precision Polymer Engineering N50M Nitrile Rubber

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

Material Notes:

Nitrile Butadiene Rubber, 48-58 °IRHD. Medium acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. To meet British Standard BS2751 BA50. Applications: Excellent resistance to petroleum based oils and fuels. Excellent compression set, tear and abrasion resistance. Good water resistance but poor against ozone and weather.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-N50M-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
	55	55	°IRHD, +5 change after 70 hours @ 70°C; ASTM D1415
Tensile Strength, Yield	7.225 MPa	1048 psi	-15% change after 70 hours @ 70°C; ASTM D412
	8.50 MPa	1230 psi	ASTM D412
Elongation at Break	300 %	300 %	-25% change after 70 hours @ 70°C; ASTM D412
	400 %	400 %	ASTM D412
Compression Set	25 %	25 %	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	
	-25.0 °C	-13.0 °F	Temperature at which stiffness does not exceed 70 Mpa
Flash Point	>= 300 °C	>= 572 °F	

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