

Precision Polymer Engineering N50C Nitrile Rubber

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

Material Notes:

Nitrile Butadiene Rubber, 45-55 °IRHD. High acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. To meet British Gas Specification BGC/PS/LC6 Class B, approval ref.: 67/6.11.iv. MSL lab code 1.R. Also meets British Standard BS2494 Type G. Applications: Elastomeric seals for use in pipelines carrying manufactured or natural gas at operating temperatures of -5° to +40°C and pressures up to 7 bar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-N50C-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
	45 - 55	45 - 55	°IRHD, ±5 change after 70 hours @ 70°C; ASTM D1415
Tensile Strength, Yield	8.10 MPa	1170 psi	-10% change after 70 hours @ 70°C; ASTM D412
	9.00 MPa	1310 psi	ASTM D412
Elongation at Break	300 %	300 %	-25% change after 70 hours @ 70°C; ASTM D412
	400 %	400 %	ASTM D412
Compression Set	12 %	12 %	24 hours @ 70°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 °C	248 °F	
Minimum Service Temperature, Air	-30.0 °C	-22.0 °F	
Flash Point	>= 300 °C	>= 572 °F	

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