

Precision Polymer Engineering N80C Nitrile Rubber

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

Material Notes:

High Nitrile Rubber, 75-85 °IRHD. High acrylonitrile (ACN) content (38%). Copolymer of acrylonitrile and butadiene. ASTM designation = NBR. ISO designation = NBR. British Gas Specification BGC/PS/LC6 Class E, approval ref.: 71/6.11.iv. MSL lab code 2.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-N80C-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	°IRHD; ASTM D1415
	85	85	°IRHD, +5 change after 70 hours @ 100°C; ASTM D1415
Tensile Strength, Yield	8.10 MPa	1170 psi	-10% change after 70 hours @ 100°C; ASTM D412
	9.00 MPa	1310 psi	ASTM D412
Elongation at Break	112.5 %	112.5 %	-25% change after 70 hours @ 100°C; ASTM D412
	150 %	150 %	ASTM D412
Compression Set	12 %	12 %	24 hours @ 100°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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