

Precision Polymer Engineering Z75R Hydrogenated NBR Compound

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

Material Notes:

Red Hydrogenated Nitrile Rubber, 70-80 °IRHD. Medium acrylonitrile (ACN) content. ASTM designation = HNBR. ASTM D2000 line call-out 2MDH708, A26, B36, E016, E036, F14, Z1. Z1 = hardness 75 ±5. Applications: High strength and excellent chemical resistance. Higher operating temperature than standard nitrile. Suitable for use with sour (H₂S) crude oil and gas, which may include lubricating, oil additives and amine corrosion inhibitors. Good resistance to weathering and ozone.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-Z75R-Hydrogenated-NBR-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	°IRHD; ASTM D1415
	85	85	°IRHD, +10 change after 70 hours @ 150°C; ASTM D1415
Tensile Strength, Yield	7.50 MPa	1090 psi	-25% change after 70 hours @ 150°C; ASTM D412
	10.0 MPa	1450 psi	ASTM D412
Elongation at Break	140 %	140 %	-30% change after 70 hours @ 150°C; ASTM D412
	200 %	200 %	ASTM D412
Compression Set	50 %	50 %	22 hours @ 150°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 °C	356 °F	
Minimum Service Temperature, Air	-20.0 °C	-4.00 °F	
	-18.0 °C	-0.400 °F	Non-brittle after 3 minutes
Flash Point	>= 300 °C	>= 572 °F	

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