

Precision Polymer Engineering Z50B Hydrogenated NBR Compound

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

Material Notes:

Hydrogenated Nitrile Rubber, 45-55 °IRHD. Medium acrylonitrile (ACN) content. ASTM designation = HNBR. To meet ASTM D2000 line call-out 2MDH508, A26, B16, E016, E036, F14, Z1, where Z1 = tensile strength of 16 MPa min. 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 also 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-Z50B-Hydrogenated-NBR-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
	60	60	°IRHD, +10 change after 70 hours @ 150°C; ASTM D1415
Tensile Strength, Yield	12.0 MPa	1740 psi	-25% change after 70 hours @ 150°C; ASTM D412
	16.0 MPa	2320 psi	ASTM D412
Elongation at Break	175 %	175 %	-30% change after 70 hours @ 150°C; ASTM D412
	250 %	250 %	ASTM D412
Compression Set	30 %	30 %	24 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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