

Precision Polymer Engineering Z85B Hydrogenated NBR Compound

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

Material Notes:

Peroxide cured, Hydrogenated Nitrile Rubber, 76-85 °IRHD. Medium acrylonitrile content (ACN =36%). ASTM designation = HNBR. ASTM D2000 line call-out MDH814, A26, B36, EO16, EO36, F14. 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-Z85B-Hydrogenated-NBR-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	°IRHD; ASTM D1415
	81	81	°IRHD, +1 change after 70 hours @ 150°C; ASTM D1415
Tensile Strength, Yield	21.45 MPa	3111 psi	-2.5% change after 70 hours @ 150°C; ASTM D412
	22.0 MPa	3190 psi	ASTM D412
Elongation at Break	209.35 %	209.35 %	-21% change after 70 hours @ 150°C; ASTM D412
	265 %	265 %	ASTM D412
Compression Set	13.5 %	13.5 %	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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