

Precision Polymer Engineering Z85T Hydrogenated NBR Compound

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

Material Notes:

Peroxide cured, Hydrogenated Nitrile Rubber, 80-90 °IRHD. Medium acrylonitrile content (ACN =36%). ASTM D2000 line call-out M2DH920, A26, B16, E016, E036, F14, Z1, where Z1 = Hardness 80-90. Applications: Excellent heat, oil and chemical resistance for O-rings, seals and gaskets for automotive and energy industries. 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. This grade is specially compounded to offer high-pressure extrusion resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-Z85T-Hydrogenated-NBR-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	°IRHD; ASTM D1415
	95	95	°IRHD, +10 change after 70 hours @ 150°C; ASTM D1415
Tensile Strength, Yield	15.0 MPa	2180 psi	-25% change after 70 hours @ 150°C; ASTM D412
	20.0 MPa	2900 psi	ASTM D412
Elongation at Break	70 %	70 %	-30% change after 70 hours @ 150°C; ASTM D412
	100 %	100 %	ASTM D412
Compression Set	35 %	35 %	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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