

Precision Polymer Engineering Z60B Hydrogenated NBR Compound

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

Material Notes:

Hydrogenated Nitrile Rubber, 55-65 °IRHD. Medium acrylonitrile (ACN) content. ASTM designation = HNBR. ASTM D2000 line call-out 2MDH614, A26, B36, E016, E036, 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-Z60B-Hydrogenated-NBR-Compound.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|--|
| Hardness, Shore A | 60 | 60 | °IRHD; ASTM D1415 |
| | 70 | 70 | °IRHD, +10 change after 70 hours @ 150°C; ASTM D1415 |
| Tensile Strength, Yield | 10.5 MPa | 1520 psi | -25% change after 70 hours @ 150°C; ASTM D412 |
| | 14.0 MPa | 2030 psi | ASTM D412 |
| Elongation at Break | 175 % | 175 % | -30% change after 70 hours @ 150°C; ASTM D412 |
| | 250 % | 250 % | ASTM D412 |
| Compression Set | 50 % | 50 % | 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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