

Precision Polymer Engineering Z70F Hydrogenated NBR Compound

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

Material Notes:

Hydrogenated Nitrile Butadiene Rubber (HNBR), 65-75 °IRHD. Medium acrylonitrile content (ACN = 34%). Formulated using only those ingredients determined by the United States Food and Drug Administration (FDA) to be in accordance with Code of Federal Regulations, Title 21 (CFR21), Section 177.2600 and Section 180.22. Extraction tested. Applications: High strength and excellent chemical resistance. Higher operating temperature than standard nitrile. Material designed for repeated use in equipment associated with the production of fatty and aqueous foodstuffs. Steam resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-Z70F-Hydrogenated-NBR-Compound.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|--|
| Hardness, Shore A | 70 | 70 | °IRHD; ASTM D1415 |
| | 80 | 80 | °IRHD, +10 change after 70 hours @ 150°C; ASTM D1415 |
| Tensile Strength, Yield | 13.6 MPa | 1970 psi | -15% change after 70 hours @ 150°C; ASTM D412 |
| | 16.0 MPa | 2320 psi | ASTM D412 |
| Elongation at Break | 187.5 % | 187.5 % | -25% change after 70 hours @ 150°C; ASTM D412 |
| | 250 % | 250 % | ASTM D412 |
| Compression Set | 25 % | 25 % | 72 hours @ 125°C; ASTM D395 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-----------|-----------|-----------------------------|
| Maximum Service Temperature, Air | 180 °C | 356 °F | |
| Minimum Service Temperature, Air | -40.0 °C | -40.0 °F | |
| | -40.0 °C | -40.0 °F | Non-brittle after 3 minutes |
| Flash Point | >= 300 °C | >= 572 °F | |

| Descriptive Properties | Value | Comments |
|----------------------------------|-------|-----------------|
| Extraction Test, 21 CFR 177.2600 | pass | Distilled Water |
| | pass | n-Hexane |
| | pass | Acrylonitrile |

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