

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 60 PHR N990 (MT) Filler

Category : Polymer , Thermoset , Polyester, TS , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

MILLATHANE HT is a polyester millable polyurethane which has the ability to withstand elevated temperatures. Polyurethanes have been known for their excellent resistance to abrasion, impact, tear strength, oil and fuel resistance, and ozone resistance. The life expectancy of urethane is often 5 times longer than other elastomers, thus saving material costs and downtime expense. One shortcoming of polyurethanes is loss of physical properties at temperatures over 180°F (82°C). MILLATHANE HT has overcome this weakness. Formulation Millathane HT 100.0 Zinc Stearate 0.5 MBTS 4.0 MBT 2.0 THANECURE® ZM1.0 Sulfur 1.5 N990 (MT) 60 All information provided by TSE Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-HT-High-Temperature-Resistant-Millable-Polyester-Polyurethane-with-60-PHR-N990-MT-Filler.php

| Mechanical Properties | Metric | English | Comments |
|--------------------------------|---|--|-------------------|
| Hardness, Shore A | 68 | 68 | |
| Tensile Strength, Yield | 12.66 MPa | 1836 psi | |
| Elongation at Yield | 410 % | 410 % | |
| 100% Modulus | 0.00322 GPa | 0.467 ksi | |
| 200% Modulus | 0.00896 GPa | 1.30 ksi | |
| 300% Modulus | 0.01160 GPa | 1.683 ksi | |
| Tear Strength | 34.1 kN/m | 195 pli | Die C |
| Taber Abrasion, mg/1000 Cycles | 0.43 | 0.43 | H-18, mg loss/rev |
| Compression Set | 57 % @Temperature 70.0 °C, Time 79200 sec | 57 % @Temperature 158 °F, Time 22.0 hour | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------------------------|-----------------------------------|----------|
| Cure Time | 20.0 min @Temperature 149 °C | 0.333 hour @Temperature 300 °F | |

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