

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 60 PHR N550 (FEF) 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 THANE CURE® ZM1.0 Sulfur 1.5 N550 (FEF) 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-N550-FEF-Filler.php

| Mechanical Properties | Metric | English | Comments |
|--------------------------------|---|--|-------------------|
| Hardness, Shore A | 85 | 85 | |
| Tensile Strength, Yield | 19.64 MPa | 2849 psi | |
| Elongation at Yield | 281 % | 281 % | |
| 100% Modulus | 0.01260 GPa | 1.828 ksi | |
| 200% Modulus | 0.01873 GPa | 2.717 ksi | |
| Tear Strength | 60.4 kN/m | 345 pli | Die C |
| Taber Abrasion, mg/1000 Cycles | 0.17 | 0.17 | H-18, mg loss/rev |
| Compression Set | 59 % @Temperature 70.0 °C, Time 79200 sec | 59 % @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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