

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 40 PHR Laminar 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 Laminar 40 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-40-PHR-Laminar-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	
Tensile Strength, Yield	14.32 MPa	2077 psi	
Elongation at Yield	463 %	463 %	
100% Modulus	0.00228 GPa	0.330 ksi	
200% Modulus	0.00394 GPa	0.572 ksi	
300% Modulus	0.00505 GPa	0.732 ksi	
Tear Strength	29.1 kN/m	166 pli	Die C
Compression Set	52 % @Temperature 70.0 °C, Time 79200 sec	52 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	22.0 min @Temperature 154 °C	0.367 hour @Temperature 310 °F	Press cured

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