

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 80 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 80 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-80-PHR-Laminar-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	67	67	
Tensile Strength, Yield	14.35 MPa	2081 psi	
Elongation at Yield	470 %	470 %	
100% Modulus	0.00353 GPa	0.512 ksi	
200% Modulus	0.00486 GPa	0.705 ksi	
300% Modulus	0.00631 GPa	0.915 ksi	
Tear Strength	32.2 kN/m	184 pli	Die C
Compression Set	68 % @Temperature 70.0 °C, Time 79200 sec	68 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	23.0 min @Temperature 154 °C	0.383 hour @Temperature 310 °F	Press cured

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