

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 50 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 THANECURE® ZM1.0 Sulfur 1.5 N550 (FEF) 50 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-50-PHR-N550-FEF-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	81	81	
Tensile Strength, Yield	19.93 MPa	2891 psi	
Elongation at Yield	345 %	345 %	
100% Modulus	0.008708 GPa	1.263 ksi	
200% Modulus	0.01675 GPa	2.429 ksi	
300% Modulus	0.01753 GPa	2.543 ksi	
Tear Strength	58.1 kN/m	332 pli	Die C
Taber Abrasion, mg/1000 Cycles	0.11	0.11	H-18, mg loss/rev
Compression Set	61 % @Temperature 70.0 °C, Time 79200 sec	61 % @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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