

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 40 PHR N220 (ISAF) 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 N220 (ISAF) 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-N220-ISAF-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	
Tensile Strength, Yield	26.15 MPa	3793 psi	
Elongation at Yield	438 %	438 %	
100% Modulus	0.00598 GPa	0.867 ksi	
200% Modulus	0.0123 GPa	1.79 ksi	
300% Modulus	0.01837 GPa	2.664 ksi	
Tear Strength	63.0 kN/m	359 pli	Die C
Taber Abrasion, mg/1000 Cycles	0.11	0.11	H-18, mg loss/rev
Compression Set	64 % @Temperature 70.0 °C, Time 79200 sec	64 % @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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