

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 20 PHR Dixie Clay 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 Dixie Clay 20 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-20-PHR-Dixie-Clay-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	54	54	
Tensile Strength, Yield	19.71 MPa	2858 psi	
Elongation at Yield	456 %	456 %	
100% Modulus	0.00252 GPa	0.365 ksi	
200% Modulus	0.00584 GPa	0.847 ksi	
300% Modulus	0.009253 GPa	1.342 ksi	
Tear Strength	35.4 kN/m	202 pli	Die C
Compression Set	58 % @Temperature 70.0 °C, Time 79200 sec	58 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	19.0 min @Temperature 154 °C	0.317 hour @Temperature 310 °F	Press cured

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