

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 80 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 HT100.0 Zinc Stearate 0.5 MBTS 4.0 MBT 2.0 THANECURE® ZM1.0 Sulfur 1.5 Dixie Clay 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-Dixie-Clay-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	
Tensile Strength, Yield	20.07 MPa	2911 psi	
Elongation at Yield	336 %	336 %	
100% Modulus	0.01083 GPa	1.571 ksi	
200% Modulus	0.01697 GPa	2.461 ksi	
300% Modulus	0.01941 GPa	2.815 ksi	
Tear Strength	46.4 kN/m	265 pli	Die C
Compression Set	72 % @Temperature 70.0 °C, Time 79200 sec	72 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	43.0 min @Temperature 154 °C	0.717 hour @Temperature 310 °F	Press cured

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