

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 80 PHR Hi-Sil 243 LD 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 Hi-Sil 243 LD 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-Hi-Sil-243-LD-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	97	97	
Tensile Strength, Yield	18.1 MPa	2620 psi	
Elongation at Yield	283 %	283 %	
100% Modulus	0.0105 GPa	1.52 ksi	
200% Modulus	0.01616 GPa	2.344 ksi	
Tear Strength	71.4 kN/m	407 pli	Die C
Compression Set	78 % @Temperature 70.0 °C, Time 79200 sec	78 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min @Temperature 154 °C	0.500 hour @Temperature 310 °F	Press cured

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