

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 20 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 HT100.0 Zinc Stearate 0.5 MBTS 4.0 MBT 2.0 THANECURE® ZM1.0 Sulfur 1.5 Hi-Sil 243 LD 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-Hi-Sil-243-LD-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	63	63	
Tensile Strength, Yield	25.90 MPa	3757 psi	
Elongation at Yield	478 %	478 %	
100% Modulus	0.00232 GPa	0.336 ksi	
200% Modulus	0.00494 GPa	0.716 ksi	
300% Modulus	0.009011 GPa	1.307 ksi	
Tear Strength	41.7 kN/m	238 pli	Die C
Compression Set	59 % @Temperature 70.0 °C, Time 79200 sec	59 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	24.0 min @Temperature 154 °C	0.400 hour @Temperature 310 °F	Press cured

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