

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 60 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 LD60 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-60-PHR-Hi-Sil-243-LD-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	
Tensile Strength, Yield	22.15 MPa	3213 psi	
Elongation at Yield	427 %	427 %	
100% Modulus	0.00598 GPa	0.867 ksi	
200% Modulus	0.01116 GPa	1.618 ksi	
300% Modulus	0.01606 GPa	2.329 ksi	
Tear Strength	70.5 kN/m	402 pli	Die C
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	28.0 min @Temperature 154 °C	0.467 hour @Temperature 310 °F	Press cured

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