

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 0.5 PHR Zinc Stearate

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. Zinc stearate, when used as a co-activator with THANECURE® ZM, permits shorter cure times with improved compression set properties. Zinc stearate does contribute some lubricity to the batch and helps prevent sticking to mill rolls and surfaces of internal mixers, however its primary use is to help activate the cure and produce a tighter cure. 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-05-PHR-Zinc-Stearate.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	
Tensile Strength, Yield	19.04 MPa	2762 psi	
Elongation at Yield	405 %	405 %	
100% Modulus	0.00628 GPa	0.911 ksi	
200% Modulus	0.01287 GPa	1.867 ksi	
300% Modulus	0.01702 GPa	2.469 ksi	
Tear Strength	36.0 kN/m	205 pli	Die C
Compression Set	57 % @Temperature 70.0 °C, Time 79200 sec	57 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	12.0 min @Temperature 160 °C	0.200 hour @Temperature 320 °F	Press cured

Descriptive Properties	Value	Comments
DIN Abrasion (mm³)	115	

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