

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with TCP Plasticizer

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 THANECURE® ZM1.0 Sulfur 1.5 N-330 Black 20.0 TCP 15.0 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-TCP-Plasticizer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	
Tensile Strength, Yield	16.38 MPa	2375 psi	
Elongation at Yield	563 %	563 %	
100% Modulus	0.00179 GPa	0.260 ksi	
200% Modulus	0.00406 GPa	0.589 ksi	
300% Modulus	0.00800 GPa	1.16 ksi	
Tear Strength	45.2 kN/m	258 pli	Die C

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-51.0 °C	-59.8 °F	

Processing Properties	Metric	English	Comments
Cure Time	25.0 min	0.417 hour	
	@Temperature 154 °C	@Temperature 310 °F	

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