

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane, 310°F Cure Temperature

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 N-330 Black 20.0 Sulfur 1.5 THANECURE® ZM1.0 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-310F-Cure-Temperature.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	62	62	
Tensile Strength, Yield	26.92 MPa	3904 psi	
Elongation at Yield	412 %	412 %	
100% Modulus	0.00310 GPa	0.450 ksi	
200% Modulus	0.00827 GPa	1.20 ksi	
300% Modulus	0.01559 GPa	2.261 ksi	
Tear Strength	47.3 kN/m	270 pli	Die C

Processing Properties	Metric	English	Comments
Cure Time	20.0 min	0.333 hour	
	@Temperature 154 °C	@Temperature 310 °F	

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