

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with Cumar P-10 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 Cumar P-10 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-Cumar-P-10-Plasticizer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	53	53	
Tensile Strength, Yield	25.7 MPa	3730 psi	
Elongation at Yield	617 %	617 %	
100% Modulus	0.00138 GPa	0.200 ksi	
200% Modulus	0.00287 GPa	0.416 ksi	
300% Modulus	0.00586 GPa	0.850 ksi	
Tear Strength	44.8 kN/m	256 pli	Die C

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-47.0 °C	-52.6 °F	

Processing Properties	Metric	English	Comments
Cure Time	23.0 min @Temperature 154 °C	0.383 hour @Temperature 310 °F	

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