

TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 4.0 PHR DBPH-50

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. MILLATHANE® HT compounds need only three ingredients when curing with peroxide: MILLATHANE HT, stearic acid and peroxide. However, reinforcing fillers are necessary. Because without them, the tensile, elongation and tear properties of MILLATHANE HT compounds do not attain their maximum values. In comparison with sulfur cures, peroxide-cured compounds have superior compression set, faster cure times and better heat resistance. However, sulfur-cured compounds exhibit higher tensile and elongation characteristics.

Formulation Millathane HT 100.0 Stearic Acid 0.5 N-550 Black 35.0 TP-955.0 Vanfre AP21.0 Poly AC617A1 Varox DBPH-504.0

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-40-PHR-DBPH-50.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89	89	
Tensile Strength, Yield	15.89 MPa	2305 psi	
Elongation at Yield	85 %	85 %	
Tear Strength	9.60 kN/m	54.8 pli	Die C
Compression Set	9.9 % @Temperature 70.0 °C, Time 79200 sec	9.9 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	4.10 min @Temperature 177 °C	0.0683 hour @Temperature 350 °F	

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