

## TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with 1.0 PHR MBTS

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. An increase in the level of MBTS results in more processing safety, plus it gives a higher state of cure. On the other hand, MBT acts as an accelerator which, when increased, will cause a decrease in processing safety and a higher state of 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-10-PHR-MBTS.php](http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-HT-High-Temperature-Resistant-Millable-Polyester-Polyurethane-with-10-PHR-MBTS.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	
Tensile Strength, Yield	17.83 MPa	2586 psi	
Elongation at Yield	638 %	638 %	
100% Modulus	0.00367 GPa	0.532 ksi	
200% Modulus	0.007322 GPa	1.062 ksi	
300% Modulus	0.01091 GPa	1.582 ksi	
Tear Strength	61.0 kN/m	348 pli	Die C
Compression Set	72 % @Temperature 70.0 °C, Time 79200 sec	72 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	5.00 min @Temperature 160 °C	0.0833 hour @Temperature 320 °F	Press cured

Descriptive Properties	Value	Comments
DIN Abrasion (mm³)	136	

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