

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

**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. THANECURE ZM activator is a partial complex of zinc chloride and MBTS which develops a fast rate of cure in MILLATHANE® HT. The improvement in the rate of cure in MILLATHANE HT imparted by the addition of THANECURE ZM is shown below. The addition of the THANECURE ZM improves the compression set resistance and does not detract from the outstanding abrasion and tear resistance of its vulcanizates. 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-Thanecure-ZM.php](http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-HT-High-Temperature-Resistant-Millable-Polyester-Polyurethane-with-10-PHR-Thanecure-ZM.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	
Tensile Strength, Yield	18.50 MPa	2683 psi	
Elongation at Yield	408 %	408 %	
100% Modulus	0.00550 GPa	0.797 ksi	
200% Modulus	0.0116 GPa	1.68 ksi	
300% Modulus	0.01618 GPa	2.346 ksi	
Tear Strength	39.0 kN/m	223 pli	Die C
Compression Set	59 % @Temperature 70.0 °C, Time 79200 sec	59 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	13.0 min @Temperature 160 °C	0.217 hour @Temperature 320 °F	Press cured

Descriptive Properties	Value	Comments
DIN Abrasion (mm³)	113	

## Contact Songhan Plastic Technology Co.,Ltd.

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