

## TSE Industries Millathane® HT High Temperature-Resistant Millable Polyester Polyurethane with Benzoflex 9-88SG 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 Benzoflex 9-88SG 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-Benzoflex-9-88SG-Plasticizer.php](http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-HT-High-Temperature-Resistant-Millable-Polyester-Polyurethane-with-Benzoflex-9-88SG-Plasticizer.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	
Tensile Strength, Yield	24.22 MPa	3513 psi	
Elongation at Yield	530 %	530 %	
100% Modulus	0.00185 GPa	0.268 ksi	
200% Modulus	0.00464 GPa	0.673 ksi	
300% Modulus	0.008805 GPa	1.277 ksi	
Tear Strength	46.6 kN/m	266 pli	Die C

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

Processing Properties	Metric	English	Comments
Cure Time	22.0 min @Temperature 154 °C	0.367 hour @Temperature 310 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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