

TSE Industries Millathane® CM High Temperature-Resistant Millable Polyester Polyurethane

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. All information provided by TSE Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-CM-High-Temperature-Resistant-Millable-Polyester-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	
Mooney Viscosity	35 - 65	35 - 65	ML 1+4
	@Temperature 100 °C	@Temperature 212 °F	
	40 - 60	40 - 60	Standard, ML 1+4
	@Temperature 100 °C	@Temperature 212 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	30 - 90	30 - 90	
Tensile Strength, Yield	<= 27.6 MPa	<= 4000 psi	
Resilience	20 - 40	20 - 40	%

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-59.0 °C	-74.2 °F	

Descriptive Properties	Value	Comments
Abrasion Resistance	Excellent	
Appearance	Dark to light amber solid bale or milled sheets	
Elongation	Good	
Health Hazard	None	
Heat Aging Resistance	Excellent to 250°F continuous, 300°F intermittent	

Order Descriptive Properties	Faint characteristic Value	Comments
Oil and Fuel Resistance	Excellent	
Ozone Resistance	Excellent	
Storage Stability	Excellent	
Tear Resistance	Excellent	
Weather Resistance	Excellent	

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