

TSE Industries Millathane® CM Millable Polyether Urethane Rubber, No Milling Time

Category : Polymer , Thermoset , Polyester, TS , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

MILLATHANE CM is a sulfur and peroxide curable polyether urethane rubber. Its outstanding property is its great resistance to abrasion, which makes it of special interest for articles that are subjected to high wear in service. It has a unique combination of excellent properties, such as low temperature characteristics, and resistance to heat deterioration, ozone cracking, weathering and swelling in oils or solvents.

Formulation
Millathane CM 100.0N330 Carbon Black30.0Coumarone-Indene Resin15.0MBTS4.0MBT1.0Sulfur0.75CAYTUR 40.35Zinc Stearate0.5All information provided by TSE Industries

Order this product through the following link:
http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-CM-Millable-Polyether-Urethane-Rubber-No-Milling-Time.php

Physical Properties	Metric	English	Comments
Mooney Viscosity	64 @Temperature 100 °C	64 @Temperature 212 °F	MS 1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	68	68	
Tensile Strength, Yield	33.8 MPa	4900 psi	
Elongation at Break	550 %	550 %	
300% Modulus	0.0124 GPa	1.80 ksi	
Tear Strength	64.7 kN/m	369 pli	Die C; ASTM D624
Abrasion	365	365	NBS Index
Compression Set	24 % @Temperature 70.0 °C, Time 79200 sec	24 % @Temperature 158 °F, Time 22.0 hour	Method B

Processing Properties	Metric	English	Comments
Cure Time	60.0 min @Temperature 142 °C	1.00 hour @Temperature 287 °F	

Descriptive Properties	Value	Comments
Mooney Scorch	>= 40	at 250°F; 43 minutes to 10 point rise

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