

## TSE Industries Millathane® CM Millable Polyether Urethane Rubber, Hardness 63A

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 Black30.0Cumar W 2 1/215.0MBTS4.0MBT1.0Sulfur0.75CAYTUR 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-Hardness-63A.php](http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-CM-Millable-Polyether-Urethane-Rubber-Hardness-63A.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	63	63	
Tensile Strength, Yield	36.9 MPa	5350 psi	
Elongation at Yield	570 %	570 %	
100% Modulus	0.00207 GPa	0.300 ksi	
300% Modulus	0.0103 GPa	1.50 ksi	
Tear Strength	43.8 kN/m	250 pli	Graves
Abrasion	300	300	NBS Index
Compression Set	28 % @Temperature 70.0 °C, Time 79200 sec	28 % @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
500% Modulus (ksi)	3.5	
Mooney Scorch	>= 30	at 250°F; >30 minutes to a 10 point rise

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