

TSE Industries Millathane® CM Millable Polyether Urethane Rubber, 1.5 PHR Sulfur

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. Increasing the concentration of sulfur produces a faster rate and a higher state of cure — better abrasion resistance, better dynamic properties, and high hardness — equivalent compression set, and somewhat poorer aging properties. Decreasing the sulfur content results in a reduced state of cure. Formulation Millathane CM 100.0N330 Carbon Black30.0Coumarone-Indene Resin15.0MBTS4.0MBT1.0Zinc Stearate0.75CAYTUR 40.35Sulfur1.5All 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-15-PHR-Sulfur.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	68	68	
	69	69	after 7 days at 100°C
Tensile Strength, Yield	23.4 MPa	3400 psi	after 7 days at 100°C
	29.48 MPa	4275 psi	
Elongation at Break	290 %	290 %	after 7 days at 100°C
	460 %	460 %	
300% Modulus	0.0152 GPa	2.20 ksi	
Abrasion	380	380	NBS Index
Compression Set	21 %	21 %	Method B
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

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

Descriptive Properties	Value	Comments
?T, Platen (°C)	58	
Heat Build-up, Internal Temp (°C)	125	Goodrich Flexometer

Descriptive Properties	Value	Comments
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