

TSE Industries Millathane® CM Millable Polyether Urethane Rubber, 0.35 PHR Caytur 4

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. An activator containing zinc should be used to insure faster rates of cure in reasonable periods of time. Zinc diethyldithiocarbamate and zinc dibutyldithiocarbamate over the range of 0.1 to 1.0 phr have been used, but they do not give cures as satisfactory as the ZnCl₂/MBTS complex known as CAYTUR 4. 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-035-PHR-Caytur-4.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	68	68	
Tensile Strength, Yield	34.5 MPa	5000 psi	
Elongation at Break	560 %	560 %	
300% Modulus	0.0138 GPa	2.00 ksi	
Tear Strength	66.4 kN/m	379 pli	Die C; ASTM D624
Abrasion	355	355	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	>30	time to 10 point rise (minutes) at 250°F
	20	time to 10 point rise (minutes) at 275°F

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