

TSE Industries Millathane® CM Millable Polyether Urethane Rubber with 10 PHR Hi-Sil 233 Filler

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 100.0 Hi-Sil 233 10.0 Coumarone-Indene Resin 3.33 MBTS 4.0 MBT 1.0 Sulfur 0.75 CAYTUR 40.35 Zinc Stearate 0.50 All 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-with-10-PHR-Hi-Sil-233-Filler.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	
Mooney Viscosity	26	26	
	@Temperature 121 °C	@Temperature 250 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	
Tensile Strength, Yield	21.4 MPa	3100 psi	
Elongation at Yield	475 %	475 %	
100% Modulus	0.00155 GPa	0.225 ksi	
300% Modulus	0.00310 GPa	0.450 ksi	
Tear Strength	29.2 kN/m	167 pli	Graves
Compression Set	22 %	22 %	Method B

Processing Properties	Metric	English	Comments
Cure Time	90.0 min	1.50 hour	
	@Temperature 142 °C	@Temperature 287 °F	

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