

TSE Industries Millathane® CM Millable Polyether Urethane Rubber, 310°F Cure Temperature

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-310F-Cure-Temperature.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|----------|
| Hardness, Shore A | 65 | 65 | |
| Tensile Strength, Yield | 33.8 MPa | 4900 psi | |
| Elongation at Break | 620 % | 620 % | |
| 300% Modulus | 0.00896 GPa | 1.30 ksi | |
| Compression Set | 31 % @Temperature 70.0 °C, Time 79200 sec | 31 % @Temperature 158 °F, Time 22.0 hour | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------------------------|-----------------------------------|----------|
| Cure Time | 25.0 min @Temperature 154 °C | 0.417 hour @Temperature 310 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| 500% Modulus (ksi) | 3 | |

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