

## TSE Industries Millathane® CM Millable Polyether Urethane Rubber with 20 PHR N339 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 100.0N33920.0Coumarone-Indene Resin6.67MBTS4.0MBT1.0Sulfur0.75CAYTUR 40.35Zinc Stearate0.50All 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-20-PHR-N339-Filler.php](http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-CM-Millable-Polyether-Urethane-Rubber-with-20-PHR-N339-Filler.php)

| Physical Properties | Metric              | English             | Comments |
|---------------------|---------------------|---------------------|----------|
| Specific Gravity    | 1.15 g/cc           | 1.15 g/cc           |          |
| Mooney Viscosity    | 27                  | 27                  |          |
|                     | @Temperature 121 °C | @Temperature 250 °F |          |

| Mechanical Properties   | Metric      | English   | Comments  |
|-------------------------|-------------|-----------|-----------|
| Hardness, Shore A       | 62          | 62        |           |
| Tensile Strength, Yield | 33.8 MPa    | 4900 psi  |           |
| Elongation at Yield     | 560 %       | 560 %     |           |
| 100% Modulus            | 0.00207 GPa | 0.300 ksi |           |
| 300% Modulus            | 0.00896 GPa | 1.30 ksi  |           |
| Tear Strength           | 48.1 kN/m   | 274 pli   | Graves    |
| Abrasion                | 200         | 200       | NBS Index |
| Compression Set         | 26 %        | 26 %      | Method B  |

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

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