

## TSE Industries Millathane® CM Millable Polyether Urethane Rubber with 20 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 20.0 Coumarone-Indene Resin 6.67 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-20-PHR-Hi-Sil-233-Filler.php](http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-CM-Millable-Polyether-Urethane-Rubber-with-20-PHR-Hi-Sil-233-Filler.php)

| Physical Properties | Metric                    | English                   | Comments |
|---------------------|---------------------------|---------------------------|----------|
| Specific Gravity    | 1.16 g/cc                 | 1.16 g/cc                 |          |
| Mooney Viscosity    | 28<br>@Temperature 121 °C | 28<br>@Temperature 250 °F |          |

| Mechanical Properties   | Metric      | English   | Comments |
|-------------------------|-------------|-----------|----------|
| Hardness, Shore A       | 61          | 61        |          |
| Tensile Strength, Yield | 30.3 MPa    | 4400 psi  |          |
| Elongation at Yield     | 550 %       | 550 %     |          |
| 100% Modulus            | 0.00172 GPa | 0.250 ksi |          |
| 300% Modulus            | 0.00362 GPa | 0.525 ksi |          |
| Tear Strength           | 30.9 kN/m   | 176 pli   | Graves   |
| Compression Set         | 22 %        | 22 %      | Method B |

| Processing Properties | Metric                          | English                          | Comments |
|-----------------------|---------------------------------|----------------------------------|----------|
| Cure Time             | 90.0 min<br>@Temperature 142 °C | 1.50 hour<br>@Temperature 287 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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