

## TSE Industries Millathane® E34 Millable Polyether Polyurethane Rubber with 3.0 PHR Thanecure ZM

**Category :** Polymer , Thermoset , Polyester, TS , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

MILLATHANE E34 is a high performance polyether polyurethane rubber for applications requiring: high abrasion resistance, low temperature flexibility, ozone resistance, oil and fuel resistance, outstanding hydrolytic stability and improved processing. MILLATHANE E34 can be compounded and processed by the use of conventional rubber manufacturing equipment – mixed on two roll mills or an internal mixer. Compounds can be – calendered; extruded; injection, transfer, or compression molded – to produce finished polyurethane parts. It can be vulcanized by organic peroxides or sulfur with thiazole accelerators. Formulation Millathane E34 100.0N330 Black30.0Cumar P1010.0MBTS4.0MBT2.0Sulfur1.5Zinc Stearate0.5Thanecure® ZM3.0All information provided by TSE Industries

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_TSE-Industries-Millathane-E34-Millable-Polyether-Polyurethane-Rubber-with-30-PHR-Thanecure-ZM.php](http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-E34-Millable-Polyether-Polyurethane-Rubber-with-30-PHR-Thanecure-ZM.php)

| Mechanical Properties   | Metric                                            | English                                          | Comments |
|-------------------------|---------------------------------------------------|--------------------------------------------------|----------|
| Hardness, Shore A       | >= 66                                             | >= 66                                            |          |
| Tensile Strength, Yield | 30.23 MPa                                         | 4384 psi                                         |          |
| Elongation at Yield     | 500 %                                             | 500 %                                            |          |
| 100% Modulus            | 0.00340 GPa                                       | 0.493 ksi                                        |          |
| 200% Modulus            | 0.007598 GPa                                      | 1.102 ksi                                        |          |
| 300% Modulus            | 0.01290 GPa                                       | 1.871 ksi                                        |          |
| Tear Strength           | 40.8 kN/m                                         | 233 pli                                          | Die C    |
| Compression Set         | 33.4 %<br>@Temperature 70.0 °C,<br>Time 79200 sec | 33.4 %<br>@Temperature 158 °F,<br>Time 22.0 hour |          |

| Processing Properties | Metric                           | English                           | Comments |
|-----------------------|----------------------------------|-----------------------------------|----------|
| Cure Time             | 8.00 min<br>@Temperature 68.3 °C | 0.133 hour<br>@Temperature 155 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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