

TSE Industries Millathane® E34 Millable Polyether Polyurethane Rubber with 60 PHR N990 (MT) Filler

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 100.0 Zinc Stearate 0.5 Struktol WB 2220.5 Poly AC 617A 0.5 Cumar P1010.0 MBTS 4.0 MBT 2.0 Thanacure® ZM1.0 Sulfur 1.5 Carbon Black N-990 (MT) 60 All 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-60-PHR-N990-MT-Filler.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------|-----------|----------|
| Hardness, Shore A | >= 65 | >= 65 | |
| Tensile Strength, Yield | 19.20 MPa | 2784 psi | |
| Elongation at Yield | 576 % | 576 % | |
| 100% Modulus | 0.00230 GPa | 0.334 ksi | |
| 200% Modulus | 0.00500 GPa | 0.725 ksi | |
| 300% Modulus | 0.008198 GPa | 1.189 ksi | |
| Tear Strength | 31.2 kN/m | 178 pli | Die C |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------------------|-----------------------------------|-------------|
| Cure Time | 10.0 min @Temperature 68.3 °C | 0.167 hour @Temperature 155 °F | Press cured |

| Descriptive Properties | Value | Comments |
|---------------------------------|-------|----------|
| DIN Abrasion (mm ³) | 97.5 | |

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