

TSE Industries Millathane® E34 Millable Polyether Polyurethane Rubber with 5.0 PHR MBTS

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 Zinc Stearate 0.5N330 Black 30.0 Cumar P1010.0 MBT 2.0 Thanecure® ZM1.0 Sulfur 1.5 MBTS 5.0 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-50-PHR-MBTS.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 65	>= 65	
Tensile Strength, Yield	28.19 MPa	4089 psi	
Elongation at Yield	504 %	504 %	
100% Modulus	0.00300 GPa	0.435 ksi	
200% Modulus	0.00660 GPa	0.957 ksi	
300% Modulus	0.01140 GPa	1.653 ksi	
Tear Strength	37.3 kN/m	213 pli	Die C
Compression Set	33.7 % @Temperature 70.0 °C, Time 79200 sec	33.7 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	12.5 min @Temperature 155 °C	0.208 hour @Temperature 311 °F	

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