

TSE Industries Millathane® E34 Millable Polyether Polyurethane Rubber with 1.0 PHR Sulfur

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 P10 10.0 MBTS 4.0 MBT 2.0 Thanecure® ZM1.0 Sulfur 1.0 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-10-PHR-Sulfur.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 64	>= 64	
Tensile Strength, Yield	29.19 MPa	4234 psi	
Elongation at Yield	562 %	562 %	
100% Modulus	0.00260 GPa	0.377 ksi	
200% Modulus	0.00560 GPa	0.812 ksi	
300% Modulus	0.009797 GPa	1.421 ksi	
Tear Strength	35.2 kN/m	201 pli	Die C
Compression Set	32 % @Temperature 70.0 °C, Time 79200 sec	32 % @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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