

TSE Industries Millathane® E34 Millable Polyether Polyurethane Rubber with 0.5 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 0.5 N330 Black 30.0 Cumar P10 10.0 MBT S4.0 MBT 2.0 Thanecure® ZM1.0 Sulfur 0.5 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-05-PHR-Sulfur.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 58	>= 58	
Tensile Strength, Yield	24.19 MPa	3509 psi	
Elongation at Yield	684 %	684 %	
100% Modulus	0.00170 GPa	0.247 ksi	
200% Modulus	0.00340 GPa	0.493 ksi	
300% Modulus	0.00590 GPa	0.856 ksi	
Tear Strength	34.3 kN/m	196 pli	Die C
Compression Set	39.5 % @Temperature 70.0 °C, Time 79200 sec	39.5 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 155 °C	0.250 hour @Temperature 311 °F	

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