

TSE Industries Millathane® E34 Millable Polyether Polyurethane Rubber with 0.5 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® ZM0.5 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-Thanecure-ZM.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 62	>= 62	
Tensile Strength, Yield	27.70 MPa	4017 psi	
Elongation at Yield	621 %	621 %	
100% Modulus	0.00220 GPa	0.319 ksi	
200% Modulus	0.00450 GPa	0.653 ksi	
300% Modulus	0.007901 GPa	1.146 ksi	
Tear Strength	39.7 kN/m	227 pli	Die C
Compression Set	36.4 % @Temperature 70.0 °C, Time 79200 sec	36.4 % @Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Cure Time	12.5 min @Temperature 68.3 °C	0.208 hour @Temperature 155 °F	

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