

TSE Industries Millathane® E34 Millable Polyether Polyurethane Rubber with 40 PHR Polyfil HG90 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 MBTS 4.0 MBT 2.0 Thanecure® ZM1.0 Sulfur 1.5 Cumar P10 10.0 Water Washed Clay - Polyfil HG90 40 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-40-PHR-Polyfil-HG90-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 58	>= 58	
Tensile Strength, Yield	28.59 MPa	4147 psi	
Elongation at Yield	626 %	626 %	
100% Modulus	0.00280 GPa	0.406 ksi	
200% Modulus	0.00620 GPa	0.899 ksi	
300% Modulus	0.009301 GPa	1.349 ksi	
Tear Strength	40.6 kN/m	232 pli	Die C

Processing Properties	Metric	English	Comments
Cure Time	16.0 min	0.267 hour	Press cured
	@Temperature 68.3 °C	@Temperature 155 °F	

Descriptive Properties	Value	Comments
DIN Abrasion (mm³)	80.5	

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