

TSE Industries Millathane® E34 Millable Polyether Polyurethane Rubber with 20 PHR N220 (ISAF) 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 Struktol WB 2220.5 Poly AC 617A 0.5 Cumar P1010.0 MBTS 4.0 MBT 2.0 Thanecure® ZM1.0 Sulfur 1.5 Carbon Black N-220 (ISAF) 20 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-20-PHR-N220-ISAF-Filler.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 60	>= 60	
Tensile Strength, Yield	30.99 MPa	4495 psi	
Elongation at Yield	552 %	552 %	
100% Modulus	0.00230 GPa	0.334 ksi	
200% Modulus	0.00480 GPa	0.696 ksi	
300% Modulus	0.008701 GPa	1.262 ksi	
Tear Strength	38.0 kN/m	217 pli	Die C

Processing Properties	Metric	English	Comments
Cure Time	10.0 min @Temperature 68.3 °C	0.167 hour @Temperature 155 °F	Press cured

Descriptive Properties	Value	Comments
DIN Abrasion (mm ³)	40	

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