

TSE Industries Millathane® E34 Millable Polyether Polyurethane Rubber with 30 PHR Fumed Silica - Wacker HK N20

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 MBT 4.0 MBT 2.0 Thanecure® ZM1.0 Sulfur 1.5 Cumar P10 10.0 Fumed Silica - Wacker HK N20 30 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-30-PHR-Fumed-Silica-Wacker-HK-N20.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 65	>= 65	
Tensile Strength, Yield	34.39 MPa	4988 psi	
Elongation at Yield	628 %	628 %	
100% Modulus	0.00150 GPa	0.218 ksi	
200% Modulus	0.00250 GPa	0.363 ksi	
300% Modulus	0.00390 GPa	0.566 ksi	
Tear Strength	38.6 kN/m	220 pli	Die C

Processing Properties	Metric	English	Comments
Cure Time	11.0 min @Temperature 68.3 °C	0.183 hour @Temperature 155 °F	Press cured

Descriptive Properties	Value	Comments
DIN Abrasion (mm ³)	31.8	

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