TSE Industries Millathane® CM Millable Polyether Urethane Rubber, Friction Compound

Category : Polymer , Thermoset , Polyester, TS , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

MILLATHANE CM is a sulfur and peroxide curable polyether urethane rubber. Its outstanding property is its great resistance to abrasion, which makes it of special interest for articles that are subjected to high wear in service. It has a unique combination of excellent properties, such as low temperature characteristics, and resistance to heat deterioration, ozone cracking, weathering and swelling in oils or solvents.The construction of an all-MILLATHANE CM unit is often desirable —for example, in the case of conveyor belts or other fabric inserted items. Better over-all abrasion resistance is thus obtained and the extra solvent wiping or cementing procedures required to satisfactorily bond MILLATHANE CM to other elastomers often can be eliminated.FormulationMillathane CM 100.0MT Carbon Black20.0Polyisobutylene Tackifier20.0Coumarone-Indene Resin20.0Sulfur0.75MBTS4.0MBT1.0CAYTUR 40.7Zinc Stearate0.5All information provided by TSE Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-CM-Millable-Polyether-Urethane-Rubber-Friction-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	
Tensile Strength, Yield	20.3 MPa	2950 psi	
Elongation at Break	600 %	600 %	
100% Modulus	0.00110 GPa	0.160 ksi	
300% Modulus	0.00293 GPa	0.425 ksi	
Tear Strength	26.2 kN/m	149 pli	Die C; ASTM D624

Processing Properties	Metric	English	Comments
Cure Time	60.0 min @Temperature 142 °C	1.00 hour @Temperature 287 °F	

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