

Lubrizol ESTANE® 54640 Ether Based Thermoplastic Polyurethane (European Grade)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

Material Notes:

Estane® thermoplastic polyurethanes (TPUs) include elastomeric materials that bridge the gap between flexible rubber and rigid plastics. These materials offer toughness and durability in a flexible thermoplastic elastomer system that is easy to process in a wide range of equipment. The Estane® TPU portfolio of products offers high performance polyester - and polyether - based resins and compounds in a broad range of hardnesses to meet a variety of application needs. Benefits of Estane® TPU: Outstanding Abrasion and Wear Resistance Excellent Low Temperature Flexibility Superior Toughness and Durability Ease of Processing and Manufacturing Flexibility Colorability and Paintability with no adhesion promoter Applications: Film & Sheet Fabric coating & melt coating Wire & Cable Hose, Tube & Profile Custom molding Custom compounding Automotive interior/chassis and exterior painted trim Specific Notes for this Material: Calendaring grade Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-54640-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	DIN 53505
Tensile Strength, Ultimate	40.0 MPa	5800 psi	DIN 53504
Elongation at Break	650 %	650 %	DIN 53504
50% Modulus	0.00490 GPa	0.711 ksi	DIN 53504
100% Modulus	0.00590 GPa	0.856 ksi	DIN 53504
300% Modulus	0.00910 GPa	1.32 ksi	DIN 53504
Tear Strength	56.0 kN/m	320 pli	DIN 53515
Abrasion	32	32	mm ³ ; DIN 53516
Compression Set	25 %	25 %	70 hrs./22°C; DIN 53517
	70 %	70 %	24 hrs./70°C; DIN 53517

Thermal Properties	Metric	English	Comments
Vicat Softening Point	72.0 °C	162 °F	A50; DIN 53460
Brittleness Temperature	-70.0 °C	-94.0 °F	DIN 53546

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