

Lubrizol ESTANE® 58144 Ether Based Thermoplastic Polyurethane (European Grade)

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

Material Notes:

Description: 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. Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58144-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Strength, Ultimate	44.0 MPa	6380 psi	ISO 37
Elongation at Break	410 %	410 %	ISO 37
Tensile Modulus	0.210 GPa	30.5 ksi	ISO 527
50% Modulus	0.0175 GPa	2.54 ksi	ISO 37
100% Modulus	0.0201 GPa	2.92 ksi	ISO 37
300% Modulus	0.0318 GPa	4.61 ksi	ISO 37
Rebound	34 %	34 %	ISO 4662
Tear Strength	160 kN/m	913 pli	with incision; ISO 34B
Abrasion	50	50	mm³; ISO 4649
Compression Set	36 %	36 %	70 hrs./22°C; ISO 815
	60 %	60 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
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Vicat Softening Point Thermal Properties	105 °C Metric	221 °F English	A50° ISO 306 Comments
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