

Lubrizol ESTANE® 58887 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.** **Specific Notes for this Material:** Good clarity, high tensile strength, soft touch for overmolding. Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58887-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	ISO 868
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ISO 37
Elongation at Break	610 %	610 %	ISO 37
Tensile Modulus	0.0290 GPa	4.21 ksi	ISO 527
50% Modulus	0.00600 GPa	0.870 ksi	ISO 37
100% Modulus	0.00710 GPa	1.03 ksi	ISO 37
300% Modulus	0.0110 GPa	1.60 ksi	ISO 37
Rebound	40 %	40 %	ISO 4662
Tear Strength	65.0 kN/m	371 pli	with incision; ISO 34B
Abrasion	45	45	mm³; ISO 4649
Compression Set	30 %	30 %	70 hrs./22°C; ISO 815
	75 %	75 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
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Vicat Softening Point Thermal Properties	79.0 °C Metric	174 °F English	A50° ISO 306 Comments
Brittleness Temperature	-70.0 °C	-94.0 °F	DIN 53546

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