

Lubrizol ESTANE® 58280 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-58280-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	ISO 868
Tensile Strength, Ultimate	29.0 MPa	4210 psi	ISO 37
Elongation at Break	720 %	720 %	ISO 37
Tensile Modulus	0.0110 GPa	1.60 ksi	ISO 527
50% Modulus	0.00320 GPa	0.464 ksi	ISO 37
100% Modulus	0.00440 GPa	0.638 ksi	ISO 37
300% Modulus	0.00780 GPa	1.13 ksi	ISO 37
Rebound	72 %	72 %	ISO 4662
Tear Strength	50.0 kN/m	285 pli	with incision; ISO 34B
Abrasion	30	30	mm ³ ; ISO 4649
Compression Set	16 %	16 %	70 hrs./22°C; ISO 815
	40 %	40 %	24 hrs./70°C; ISO 815

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