

Lubrizol ESTANE® 58133 Ester Based Thermoplastic Polyurethane (European Grade)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester 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-58133-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ISO 868
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ISO 37
Elongation at Break	500 %	500 %	ISO 37
Tensile Modulus	0.125 GPa	18.1 ksi	ISO 527
50% Modulus	0.0125 GPa	1.81 ksi	ISO 37
100% Modulus	0.0142 GPa	2.06 ksi	ISO 37
300% Modulus	0.0281 GPa	4.08 ksi	ISO 37
Rebound	29 %	29 %	ISO 4662
Tear Strength	125 kN/m	713 pli	with incision; ISO 34B
	157 kN/m	896 pli	without incision; ISO 34B
Abrasion	35	35	mm ³ ; ISO 4649
Compression Set	34 %	34 %	70 hrs./22°C; ISO 815
	70 %	70 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	116 °C	241 °F	A50; ISO 306

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