

Lubrizol ESTANE® 58447 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 Specific Notes for this Material: Higher heat

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58447-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	DIN 53505
Hardness, Shore D	44	44	DIN 53505
Tensile Strength, Ultimate	46.0 MPa	6670 psi	DIN 53504
Elongation at Break	540 %	540 %	DIN 53504
50% Modulus	0.00700 GPa	1.02 ksi	DIN 53504
100% Modulus	0.00800 GPa	1.16 ksi	DIN 53504
300% Modulus	0.0145 GPa	2.10 ksi	DIN 53504
Tear Strength	85.0 kN/m	485 pli	DIN 53515
Abrasion	40	40	mm ³ ; DIN 53516
Compression Set	29 %	29 %	70 hrs./22°C; DIN 53517
	60 %	60 %	24 hrs./70°C; DIN 53517

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	A50; DIN 53460

Brittleness Temperature
Thermal Properties

-70.0 °C
Metric

-94.0 °F
English

DIN 53546
Comments

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