

Lubrizol ESTANE® ETE50DS3 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: Easy to extrude technology Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-ETE50DS3-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	DIN 53505
Tensile Strength, Ultimate	39.0 MPa	5660 psi	DIN 53504
Elongation at Break	545 %	545 %	DIN 53504
50% Modulus	0.0129 GPa	1.87 ksi	DIN 53504
100% Modulus	0.0140 GPa	2.03 ksi	DIN 53504
300% Modulus	0.0246 GPa	3.57 ksi	DIN 53504
Flexural Stiffness	112.00 MPa	16244 psi	ASTM D747
Tear Strength	130 kN/m	742 pli	DIN 53515
Abrasion	84	84	mm³; DIN 53516

Thermal Properties	Metric	English	Comments
Vicat Softening Point	113 °C	235 °F	A50; DIN 53460

Descriptive Properties	Value	Comments
E-Modulus	104 mm/min	

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