

Lubrizol ESTANE® ETE50DT3 Ester 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:** Excellent extrusion, processability, low temperature flexibility, good clarity, substrate for overmolding. Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-ETE50DT3-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	DIN 53505
Tensile Strength, Ultimate	37.0 MPa	5370 psi	DIN 53504
Elongation at Break	515 %	515 %	DIN 53504
50% Modulus	0.0100 GPa	1.45 ksi	DIN 53504
100% Modulus	0.0118 GPa	1.71 ksi	DIN 53504
300% Modulus	0.0205 GPa	2.97 ksi	DIN 53504
Flexural Stiffness	70.002 MPa	10153 psi	ASTM D747
Tear Strength	105 kN/m	599 pli	DIN 53515
Abrasion	81	81	mm ³ ; DIN 53516

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 °C	185 °F	A50; DIN 53460

Descriptive Properties	Value	Comments
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E-Modulus Descriptive Properties	63 mm/min Value	Comments
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