

Lubrizol ESTANE® X4985 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 ResistanceExcellent Low Temperature FlexibilitySuperior Toughness and DurabilityEase of Processing and Manufacturing FlexibilityColorability and Paintability with no adhesion promoter**Applications:** Film & SheetFabric coating & melt coatingWire & CableHose, Tube & ProfileCustom moldingCustom compoundingAutomotive interior/chassis and exterior painted trimInformation provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-X4985-Ether-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	DIN 53505
Tensile Strength, Ultimate	38.0 MPa	5510 psi	DIN 53504
Elongation at Break	550 %	550 %	DIN 53504
50% Modulus	0.00920 GPa	1.33 ksi	DIN 53504
100% Modulus	0.0108 GPa	1.57 ksi	DIN 53504
300% Modulus	0.0188 GPa	2.73 ksi	DIN 53504
Flexural Stiffness	49.00 MPa	7107 psi	ASTM D747
Tear Strength	100 kN/m	571 pli	DIN 53515
Abrasion	66	66	mm³; DIN 53516

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

Descriptive Properties	Value	Comments
E-Modulus	47 mm/min	

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