

Lubrizol ESTANE® 75AT3 Ether Based Thermoplastic Polyurethane

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: High resilient, soft ether with very good properties, high moisture vapor transmission, soft touch for overmolding Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-75AT3-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	ASTM D2240
Tensile Strength, Ultimate	26.2 MPa	3800 psi	ASTM D412/D638
Elongation at Break	660 %	660 %	ASTM D412/D638
Compression Set	24 %	24 %	ASTM D395
Tensile Set	6.0 %	6.0 %	ASTM D412/D638

Thermal Properties	Metric	English	Comments
Transformation Temperature	-67.2 °C	-89.0 °F	by DSC

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