

Lubrizol ESTANE® 58092 Ester Based Thermoplastic Polyurethane

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: Good hydrocarbon resistance Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58092-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93	93	ASTM D2240
Hardness, Shore D	45	45	ASTM D224
Tensile Strength, Ultimate	31.7 MPa	4600 psi	ASTM D412/D638
Elongation at Break	450 %	450 %	ASTM D412/D638
Flexural Modulus	0.0310 GPa	4.50 ksi	ASTM D790
Taber Abrasion, mg/1000 Cycles	2.6	2.6	CS-17; ASTM D3389 B
Compression Set	28 %	28 %	ASTM D395
Tensile Set	17 %	17 %	ASTM D412/D638

Thermal Properties	Metric	English	Comments
Vicat Softening Point	107 °C	225 °F	ASTM D1525
Transformation Temperature	-17.2 °C	1.00 °F	by DSC

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