

Lubrizol ESTANE® 58149 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 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-58149-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	96	96	ISO 868
Hardness, Shore D	55	55	ISO 868
Tensile Strength, Ultimate	26.0 MPa	3770 psi	ISO 37
Elongation at Break	370 %	370 %	ISO 37
Tensile Modulus	0.0710 GPa	10.3 ksi	ISO 527
50% Modulus	0.0130 GPa	1.89 ksi	ISO 37
100% Modulus	0.0150 GPa	2.18 ksi	ISO 37
300% Modulus	0.0230 GPa	3.34 ksi	ISO 37
Tear Strength	114 kN/m	650 pli	with incision; ISO 34B
	127 kN/m	725 pli	without incision; ISO 34B
Abrasion	40	40	mm³; ISO 4649
Compression Set	18 %	18 %	70 hrs./22°C; ISO 815
	23 %	23 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	146 °C	295 °F	A50; ISO 306

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