

Lubrizol ESTANE® 54610 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 trim**Specific Notes for this Material:** Calendaring grade Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-54610-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	DIN 53505
Tensile Strength, Ultimate	37.0 MPa	5370 psi	DIN 53504
Elongation at Break	625 %	625 %	DIN 53504
50% Modulus	0.00480 GPa	0.696 ksi	DIN 53504
100% Modulus	0.00530 GPa	0.769 ksi	DIN 53504
300% Modulus	0.00800 GPa	1.16 ksi	DIN 53504
Tear Strength	70.0 kN/m	399 pli	DIN 53515
Abrasion	35	35	mm³; DIN 53516
Compression Set	30 %	30 %	70 hrs./22°C; DIN 53517
	80 %	80 %	24 hrs./70°C; DIN 53517

Thermal Properties	Metric	English	Comments
Vicat Softening Point	56.0 °C	133 °F	A50; DIN 53460
Brittleness Temperature	-70.0 °C	-94.0 °F	DIN 53546

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