

Lubrizol ESTANE® 58134 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 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. Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58134-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	ISO 868
Hardness, Shore D	40	40	ISO 868
Tensile Strength, Ultimate	51.0 MPa	7400 psi	ISO 37
Elongation at Break	530 %	530 %	ISO 37
Tensile Modulus	0.0350 GPa	5.08 ksi	ISO 527
50% Modulus	0.00610 GPa	0.885 ksi	ISO 37
100% Modulus	0.00700 GPa	1.02 ksi	ISO 37
300% Modulus	0.0143 GPa	2.07 ksi	ISO 37
Rebound	40 %	40 %	ISO 4662
Tear Strength	85.0 kN/m	485 pli	with incision; ISO 34B
	102 kN/m	582 pli	without incision; ISO 34B
Abrasion	35	35	mm ³ /sup>3</sup>; ISO 4649
Compression Set	22 %	22 %	70 hrs./22°C; ISO 815
	51 %	51 %	24 hrs./70°C; ISO 815

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Vicat Softening Point	94.0 °C	201 °F	A50; ISO 306

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