

Lubrizol ESTANE® 58437 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-58437-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	DIN 53505
Tensile Strength, Ultimate	39.0 MPa	5660 psi	DIN 53504
Elongation at Break	540 %	540 %	DIN 53504
Tensile Modulus	0.0240 GPa	3.48 ksi	ISO 527
50% Modulus	0.00510 GPa	0.740 ksi	DIN 53504
100% Modulus	0.00580 GPa	0.841 ksi	DIN 53504
300% Modulus	0.0106 GPa	1.54 ksi	DIN 53504
Rebound	40 %	40 %	ISO 4662
Tear Strength	60.0 kN/m	342 pli	with incision; ISO 34B
	94.0 kN/m	536 pli	without incision; ISO 34B
Abrasion	40	40	mm³; DIN 53516
Compression Set	23 %	23 %	70 hrs./22°C; DIN 53517
	60 %	60 %	24 hrs./70°C; DIN 53517

Thermal Properties	Metric	English	Comments
Vicat Softening Point	78.0 °C	172 °F	A50; DIN 53460
Brittleness Temperature	-70.0 °C	-94.0 °F	DIN 53546

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