

Lubrizol ESTANE® 58271 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.** **Specific Notes for this Material:** Good flexibility and durability. Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58271-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	DIN 53505
Tensile Strength, Ultimate	42.0 MPa	6090 psi	DIN 53504
Elongation at Break	650 %	650 %	DIN 53504
50% Modulus	0.00510 GPa	0.740 ksi	DIN 53504
100% Modulus	0.00600 GPa	0.870 ksi	DIN 53504
300% Modulus	0.00800 GPa	1.16 ksi	DIN 53504
Tear Strength	60.0 kN/m	342 pli	DIN 53515
Abrasion	70	70	mm³; DIN 53516
Compression Set	39 %	39 %	70 hrs./22°C; DIN 53517
	75 %	75 %	24 hrs./70°C; DIN 53517

Thermal Properties	Metric	English	Comments
Vicat Softening Point	58.0 °C	136 °F	A50; DIN 53460
Brittleness Temperature	-70.0 °C	-94.0 °F	DIN 53546

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