

Lubrizol ESTANE® 58360 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-58360-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	97	97	DIN 53505
Hardness, Shore D	48	48	DIN 53505
Tensile Strength, Ultimate	33.0 MPa	4790 psi	DIN 53504
Elongation at Break	485 %	485 %	DIN 53504
50% Modulus	0.00870 GPa	1.26 ksi	DIN 53504
100% Modulus	0.00950 GPa	1.38 ksi	DIN 53504
300% Modulus	0.0182 GPa	2.64 ksi	DIN 53504
Tear Strength	85.0 kN/m	485 pli	DIN 53515
Abrasion	130	130	mm³; DIN 53516
Compression Set	46 %	46 %	70 hrs./22°C; DIN 53517
	90 %	90 %	24 hrs./70°C; DIN 53517

Thermal Properties	Metric	English	Comments
Vicat Softening Point	65.0 °C	149 °F	A50; DIN 53460

Brittleness Temperature Thermal Properties	-50.0 °C Metric	-58.0 °F English	DIN 53546 Comments
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