

Lubrizol ESTANE® 58142 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-58142-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ISO 37
Elongation at Break	535 %	535 %	ISO 37
Tensile Modulus	0.327 GPa	47.4 ksi	ISO 527
50% Modulus	0.0162 GPa	2.35 ksi	ISO 37
100% Modulus	0.0173 GPa	2.51 ksi	ISO 37
300% Modulus	0.0274 GPa	3.97 ksi	ISO 37
Rebound	36 %	36 %	ISO 4662
Tear Strength	165 kN/m	941 pli	with incision; ISO 34B
	179 kN/m	1020 pli	without incision; ISO 34B
Abrasion	30	30	mm ³ ; ISO 4649
Compression Set	43 %	43 %	70 hrs./22°C; ISO 815
	61 %	61 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	128 °C	262 °F	A50; ISO 306

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