

Lubrizol ESTANE® 5799 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-5799-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	DIN 53479
Viscosity	40 - 90 cP	40 - 90 cP	NOV QC 020

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	DIN 53505
Tensile Strength, Ultimate	34.0 MPa	4930 psi	DIN 53504
Elongation at Break	110 %	110 %	DIN 53504
50% Modulus	0.0251 GPa	3.64 ksi	DIN 53504
100% Modulus	0.0267 GPa	3.87 ksi	DIN 53504
Tear Strength	150 kN/m	856 pli	DIN 53515

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