

Lubrizol ESTANE® GP80AE 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-GP80AE-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 868
Hardness, Shore D	30	30	ISO 868
Tensile Strength, Ultimate	35.0 MPa	5080 psi	ISO 37
Elongation at Break	760 %	760 %	ISO 37
Tensile Modulus	0.00900 GPa	1.31 ksi	ISO 527
50% Modulus	0.00350 GPa	0.508 ksi	ISO 37
100% Modulus	0.00450 GPa	0.653 ksi	ISO 37
300% Modulus	0.00800 GPa	1.16 ksi	ISO 37
Rebound	46 %	46 %	ISO 4662
Tear Strength	52.0 kN/m	297 pli	with incision; ISO 34B
	82.0 kN/m	468 pli	without incision; ISO 34B
Abrasion	24	24	mm³; ISO 4649
Compression Set	24 %	24 %	70 hrs./22°C; ISO 815
	38 %	38 %	24 hrs./70°C; ISO 815

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Vicat Softening Point	97.0 °C	207 °F	A50; ISO 306

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China