

Lubrizol ESTANE® GP92AB 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-GP92AB-Ester-Based-Thermoplastic-Polyurethane-European-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ISO 868
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ISO 37
Elongation at Break	580 %	580 %	ISO 37
Tensile Modulus	0.0430 GPa	6.24 ksi	ISO 527
50% Modulus	0.00750 GPa	1.09 ksi	ISO 37
100% Modulus	0.00950 GPa	1.38 ksi	ISO 37
300% Modulus	0.0200 GPa	2.90 ksi	ISO 37
Rebound	45 %	45 %	ISO 4662
Tear Strength	95.0 kN/m	542 pli	with incision; ISO 34B
	133 kN/m	759 pli	without incision; ISO 34B
Abrasion	25	25	mm ³ ; ISO 4649
Compression Set	17 %	17 %	70 hrs./22°C; ISO 815
	33 %	33 %	24 hrs./70°C; ISO 815

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Vicat Softening Point	117 °C	243 °F	A50; ISO 306

Processing Properties	Metric	English	Comments
Zone 1	190 °C	374 °F	Extrusion
Zone 2	195 °C	383 °F	Extrusion
Zone 3	200 °C	392 °F	Extrusion
Zone 4	200 °C	392 °F	Extrusion
Adapter Temperature	200 °C	392 °F	5, Extrusion
Die Temperature	195 °C	383 °F	6, Extrusion
	195 °C	383 °F	Tip, 7, Extrusion
Drying Temperature	100 °C	212 °F	
Dry Time	3.00 hour	3.00 hour	
Dew Point	>= -30.0 °C	>= -22.0 °F	

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