

Lubrizol ESTANE® GP85AE Ester Based Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Type: Estane® GP 85AE is an aromatic polyester-based thermoplastic polyurethane (TPU). Appearance: Translucent spherical pellets
Uses: Injection molding parts
Available in Europe
Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-GP85AE-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	
Melt Flow	10 - 35 g/10 min @Load 8.70 kg, Temperature 195 °C	10 - 35 g/10 min @Load 19.2 lb, Temperature 383 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ISO 868
Hardness, Shore D	37	37	ISO 868
Tensile Strength, Ultimate	38.0 MPa	5510 psi	ISO 37
Elongation at Break	680 %	680 %	ISO 37
Tensile Modulus	0.0150 GPa	2.18 ksi	ISO 527
50% Modulus	0.00450 GPa	0.653 ksi	ISO 37
100% Modulus	0.00600 GPa	0.870 ksi	ISO 37
300% Modulus	0.0105 GPa	1.52 ksi	ISO 37
Rebound	41 %	41 %	ISO 4662
Tear Strength	67.0 kN/m	382 pli	with incision; ISO 34B
	100 kN/m	571 pli	without incision; ISO 34B
Abrasion	30	30	mm³; ISO 4649
Compression Set	24 %	24 %	70 hrs./22°C; ISO 815
	38 %	38 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	Injection
Nozzle Temperature	190 - 200 °C	374 - 392 °F	Injection
Zone 1	185 - 195 °C	365 - 383 °F	Injection
Zone 2	190 - 200 °C	374 - 392 °F	Injection
Zone 3	195 - 205 °C	383 - 401 °F	Injection
Zone 4	195 - 205 °C	383 - 401 °F	Injection
Drying Temperature	90.0 °C	194 °F	
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	
Dew Point	-30.0 °C	-22.0 °F	

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