

Lubrizol ESTANE® GP95AE Ester Based Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® GP 95AE 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-GP95AE-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	
Melt Flow	10 - 35 g/10 min @Load 8.70 kg, Temperature 205 °C	10 - 35 g/10 min @Load 19.2 lb, Temperature 401 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ISO 868
Hardness, Shore D	50	50	ISO 868
Tensile Strength, Ultimate	44.0 MPa	6380 psi	ISO 37
Elongation at Break	600 %	600 %	ISO 37
Tensile Modulus	0.0570 GPa	8.27 ksi	ISO 527
50% Modulus	0.0110 GPa	1.60 ksi	ISO 37
100% Modulus	0.0125 GPa	1.81 ksi	ISO 37
300% Modulus	0.0200 GPa	2.90 ksi	ISO 37
Rebound	40 %	40 %	ISO 4662
Tear Strength	108 kN/m	616 pli	with incision; ISO 34B
	148 kN/m	844 pli	without incision; ISO 34B
Abrasion	40	40	mm ³ ; ISO 4649
Compression Set	19 %	19 %	70 hrs./22°C; ISO 815
	35 %	35 %	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	195 - 205 °C	383 - 401 °F	Injection
Zone 1	190 - 200 °C	374 - 392 °F	Injection
Zone 2	195 - 205 °C	383 - 401 °F	Injection
Zone 3	200 - 210 °C	392 - 410 °F	Injection
Zone 4	200 - 210 °C	392 - 410 °F	Injection
Drying Temperature	100 °C	212 °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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