

Lubrizol ESTANE® GP80AB Ester Based Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® GP 80AB 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-GP80AB-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	
Melt Flow	20 - 40 g/10 min @Load 21.6 kg, Temperature 190 °C	20 - 40 g/10 min @Load 47.6 lb, Temperature 374 °F	

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	575 %	575 %	ISO 37
Tensile Modulus	0.0130 GPa	1.89 ksi	ISO 527
50% Modulus	0.00370 GPa	0.537 ksi	ISO 37
100% Modulus	0.00500 GPa	0.725 ksi	ISO 37
300% Modulus	0.0130 GPa	1.89 ksi	ISO 37
Rebound	49 %	49 %	ISO 4662
Tear Strength	66.0 kN/m	377 pli	with incision; ISO 34B
	95.0 kN/m	542 pli	without incision; ISO 34B
Abrasion	29	29	mm ³ ; ISO 4649
Compression Set	16 %	16 %	70 hrs./22°C; ISO 815
	25 %	25 %	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	185 - 195 °C	365 - 383 °F	Injection
Zone 1	180 - 190 °C	356 - 374 °F	Injection
Zone 2	185 - 195 °C	365 - 383 °F	Injection
Zone 3	190 - 200 °C	374 - 392 °F	Injection
Zone 4	190 - 200 °C	374 - 392 °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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