

Lubrizol ESTANE® GP65DE Ester Based Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® GP 65DE 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-GP65DE-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	
Melt Flow	10 - 35 g/10 min @Load 8.70 kg, Temperature 215 °C	10 - 35 g/10 min @Load 19.2 lb, Temperature 419 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ISO 37
Elongation at Break	500 %	500 %	ISO 37
Tensile Modulus	0.249 GPa	36.1 ksi	ISO 527
50% Modulus	0.0235 GPa	3.41 ksi	ISO 37
100% Modulus	0.0250 GPa	3.63 ksi	ISO 37
300% Modulus	0.0320 GPa	4.64 ksi	ISO 37
Rebound	34 %	34 %	ISO 4662
Tear Strength	205 kN/m	1170 pli	with incision; ISO 34B
	225 kN/m	1280 pli	without incision; ISO 34B
Abrasion	42	42	mm ³ ; ISO 4649
Compression Set	18 %	18 %	70 hrs./22°C; ISO 815
	24 %	24 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	152 °C	306 °F	A50; ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	Injection
Nozzle Temperature	210 - 220 °C	410 - 428 °F	Injection
Zone 1	200 - 210 °C	392 - 410 °F	Injection
Zone 2	210 - 220 °C	410 - 428 °F	Injection
Zone 3	210 - 220 °C	410 - 428 °F	Injection
Zone 4	215 - 225 °C	419 - 437 °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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