

Lubrizol ESTANE® GP72DB Ester Based Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® GP 72DB is an aromatic polyester-based thermoplastic polyurethane (TPU). Appearance: Translucent spherical pellets Uses: Injection molding parts, Translucent Available in Europe Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-GP72DB-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	20 - 35 g/10 min @Load 8.70 kg, Temperature 217 °C	20 - 35 g/10 min @Load 19.2 lb, Temperature 423 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ISO 868
Tensile Strength, Ultimate	42.0 MPa	6090 psi	ISO 37
Elongation at Break	510 %	510 %	ISO 37
Tensile Modulus	0.283 GPa	41.0 ksi	ISO 527
50% Modulus	0.0250 GPa	3.63 ksi	ISO 37
100% Modulus	0.0260 GPa	3.77 ksi	ISO 37
300% Modulus	0.0330 GPa	4.79 ksi	ISO 37
Rebound	37 %	37 %	ISO 4662
Tear Strength	220 kN/m	1260 pli	with incision; ISO 34B
	240 kN/m	1370 pli	without incision; ISO 34B
Abrasion	50	50	mm ³ ; ISO 4649
Compression Set	22 %	22 %	70 hrs./22°C; ISO 815
	34 %	34 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	147 °C	297 °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	205 - 215 °C	401 - 419 °F	Injection
Zone 2	210 - 220 °C	410 - 428 °F	Injection
Zone 3	215 - 225 °C	419 - 437 °F	Injection
Zone 4	215 - 225 °C	419 - 437 °F	Injection
Drying Temperature	105 °C	221 °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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