

Lubrizol ESTANE® GP60DB Ester Based Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® GP 60DB is an aromatic polyester-based thermoplastic polyurethane (TPU). Appearance: Translucent spherical pellets Uses: Injection molding parts, animal identification tags. Available in Europe Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-GP60DB-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	5.0 - 20 g/10 min @Load 8.70 kg, Temperature 210 °C	5.0 - 20 g/10 min @Load 19.2 lb, Temperature 410 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ISO 37
Elongation at Break	540 %	540 %	ISO 37
Tensile Modulus	0.139 GPa	20.2 ksi	ISO 527
50% Modulus	0.0155 GPa	2.25 ksi	ISO 37
100% Modulus	0.0175 GPa	2.54 ksi	ISO 37
300% Modulus	0.0290 GPa	4.21 ksi	ISO 37
Rebound	33 %	33 %	ISO 4662
Tear Strength	143 kN/m	816 pli	with incision; ISO 34B
	179 kN/m	1020 pli	without incision; ISO 34B
Abrasion	37	37	mm ³ ; ISO 4649
Compression Set	31 %	31 %	70 hrs./22°C; ISO 815
	48 %	48 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	135 °C	275 °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	205 - 215 °C	401 - 419 °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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China