

Lubrizol Estane® GP 55 DB Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Type: Estane® GP 55DB is an aromatic polyester-based thermoplastic polyurethane (TPU).Features: Translucent spherical pellets.Uses: Injection molding parts Available in Europe Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-GP-55-DB-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	20 - 35 g/10 min @Load 8.70 kg, Temperature 210 °C	20 - 35 g/10 min @Load 19.2 lb, Temperature 410 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ISO 868
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ISO 527
Tensile Strength, Yield	13.7 MPa	1990 psi	50% elongation
	16.5 MPa	2390 psi	100% elongation
	27.5 MPa	3990 psi	300% elongation
Elongation at Break	530 %	530 %	
Modulus of Elasticity	0.110 GPa	16.0 ksi	ISO 527
Rebound	32 %	32 %	ISO 4662
	32 %	32 %	ISO 4662
Tear Strength	114 kN/m	650 pli	Nicked; ISO 34-1B
	170 kN/m	970 pli	Unnicked; ISO 34-1B
Abrasion	40	40	mm³; ISO 4649
Compression Set	25 % @Temperature 22.0 °C, Time 252000 sec	25 % @Temperature 71.6 °F, Time 70.0 hour	ISO 815
	42 %	42 %	ISO 815

Mechanical Properties	@Temperature 70.0 °C, Metric Time 66400 sec	@Temperature 158 °F, English Time 24.0 hour	Comments
Thermal Properties	Metric	English	Comments
Vicat Softening Point	124 °C	255 °F	A50; ISO 306
Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	Injection
Nozzle Temperature	205 °C	401 °F	Injection
Zone 1	195 - 205 °C	383 - 401 °F	Injection
Zone 2	205 - 215 °C	401 - 419 °F	Injection
Zone 3	210 - 220 °C	410 - 428 °F	Injection
Zone 4	205 - 215 °C	401 - 419 °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	

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