

Lubrizol ESTANE® GP75AE Ester Based Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® GP 75AE 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-GP75AE-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	
Melt Flow	5.0 - 15 g/10 min @Load 8.70 kg, Temperature 175 °C	5.0 - 15 g/10 min @Load 19.2 lb, Temperature 347 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ISO 868
Tensile Strength, Ultimate	30.0 MPa	4350 psi	ISO 37
Elongation at Break	800 %	800 %	ISO 37
Tensile Modulus	0.00600 GPa	0.870 ksi	ISO 527
50% Modulus	0.00300 GPa	0.435 ksi	ISO 37
100% Modulus	0.00400 GPa	0.580 ksi	ISO 37
300% Modulus	0.00700 GPa	1.02 ksi	ISO 37
Rebound	49 %	49 %	ISO 4662
Tear Strength	45.0 kN/m	257 pli	with incision; ISO 34B
	75.0 kN/m	428 pli	without incision; ISO 34B
Abrasion	25	25	mm³; ISO 4649
Compression Set	22 %	22 %	70 hrs./22°C; ISO 815
	40 %	40 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	82.0 °C	180 °F	A50; ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	Injection
Nozzle Temperature	>= 180 °C	>= 356 °F	Injection
Zone 1	175 - 185 °C	347 - 365 °F	Injection
Zone 2	180 - 190 °C	356 - 374 °F	Injection
Zone 3	185 - 195 °C	365 - 383 °F	Injection
Zone 4	185 - 195 °C	365 - 383 °F	Injection
Drying Temperature	80.0 °C	176 °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