

## Lubrizol ESTANE® GP65AE Ester Based Thermoplastic Polyurethane

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

### Material Notes:

Type: Estane® GP 65AE 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-GP65AE-Ester-Based-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-GP65AE-Ester-Based-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	
Melt Flow	10 - 25 g/10 min @Load 8.70 kg, Temperature 170 °C	10 - 25 g/10 min @Load 19.2 lb, Temperature 338 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	63	63	ISO 868
Tensile Strength, Ultimate	28.0 MPa	4060 psi	ISO 37
Elongation at Break	1030 %	1030 %	ISO 37
Tensile Modulus	0.00300 GPa	0.435 ksi	ISO 527
50% Modulus	0.00150 GPa	0.218 ksi	ISO 37
100% Modulus	0.00230 GPa	0.334 ksi	ISO 37
300% Modulus	0.00450 GPa	0.653 ksi	ISO 37
Rebound	56 %	56 %	ISO 4662
Tear Strength	34.0 kN/m	194 pli	with incision; ISO 34B
Abrasion	42	42	mm <sup>3</sup> ; ISO 4649
Compression Set	16 %	16 %	70 hrs./22°C; ISO 815
	36 %	36 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	74.0 °C	165 °F	A50; ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	Injection
Nozzle Temperature	180 - 190 °C	356 - 374 °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.

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