

## Lubrizol ESTANE® GP92AE Ester Based Thermoplastic Polyurethane

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

### Material Notes:

Type: Estane® GP 92AE 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-GP92AE-Ester-Based-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-GP92AE-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	15 - 40 g/10 min @Load 8.70 kg, Temperature 215 °C	15 - 40 g/10 min @Load 19.2 lb, Temperature 419 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ISO 868
Tensile Strength, Ultimate	43.0 MPa	6240 psi	ISO 37
Elongation at Break	650 %	650 %	ISO 37
Tensile Modulus	0.0280 GPa	4.06 ksi	ISO 527
50% Modulus	0.00750 GPa	1.09 ksi	ISO 37
100% Modulus	0.00900 GPa	1.31 ksi	ISO 37
300% Modulus	0.0150 GPa	2.18 ksi	ISO 37
Rebound	40 %	40 %	ISO 4662
Tear Strength	85.0 kN/m	485 pli	with incision; ISO 34B
	121 kN/m	690 pli	without incision; ISO 34B
Abrasion	35	35	mm <sup>3</sup> ; ISO 4649
Compression Set	23 %	23 %	70 hrs./22°C; ISO 815
	33 %	33 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	115 °C	239 °F	A50; ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	Injection
Nozzle Temperature	190 - 200 °C	374 - 392 °F	Injection
Zone 1	185 - 195 °C	365 - 383 °F	Injection
Zone 2	190 - 200 °C	374 - 392 °F	Injection
Zone 3	195 - 205 °C	383 - 401 °F	Injection
Zone 4	195 - 205 °C	383 - 401 °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.

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