

Lubrizol ESTANE® GP92AT Ether Based Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® GP 92AT is an aromatic polyether-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-GP92AT-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	
Melt Flow	20 - 40 g/10 min @Load 21.6 kg, Temperature 190 °C	20 - 40 g/10 min @Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ISO 868
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ISO 37
Elongation at Break	310 %	310 %	ISO 37
Tensile Modulus	0.0450 GPa	6.53 ksi	ISO 527
50% Modulus	0.00850 GPa	1.23 ksi	ISO 37
100% Modulus	0.0100 GPa	1.45 ksi	ISO 37
300% Modulus	0.0165 GPa	2.39 ksi	ISO 37
Rebound	36 %	36 %	ISO 4662
Tear Strength	81.0 kN/m	462 pli	with incision; ISO 34B
	128 kN/m	730 pli	without incision; ISO 34B
Abrasion	30	30	mm ³ ; ISO 4649
Compression Set	21 %	21 %	70 hrs./22°C; ISO 815
	40 %	40 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
Vicat Softening Point	114 °C	237 °F	A50; ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	Injection
Nozzle Temperature	200 - 210 °C	392 - 410 °F	Injection
Zone 1	190 - 200 °C	374 - 392 °F	Injection
Zone 2	200 - 210 °C	392 - 410 °F	Injection
Zone 3	200 - 210 °C	392 - 410 °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