

Lubrizol ESTANE® GP55DT Ether Based Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® GP 55DT is an aromatic polyether-based thermoplastic polyurethane (TPU). Appearance: Translucent spherical pellets Uses: Injection molding parts, animal identification tags Available in Europe Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-GP55DT-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	
Melt Flow	15 - 35 g/10 min @Load 8.70 kg, Temperature 210 °C	15 - 35 g/10 min @Load 19.2 lb, Temperature 410 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	98	98	ISO 868
Hardness, Shore D	55	55	ISO 868
Tensile Strength, Ultimate	46.0 MPa	6670 psi	ISO 37
Elongation at Break	500 %	500 %	ISO 37
Tensile Modulus	0.0910 GPa	13.2 ksi	ISO 527
50% Modulus	0.0145 GPa	2.10 ksi	ISO 37
100% Modulus	0.0170 GPa	2.47 ksi	ISO 37
300% Modulus	0.0280 GPa	4.06 ksi	ISO 37
Rebound	32 %	32 %	ISO 4662
Tear Strength	133 kN/m	759 pli	with incision; ISO 34B
	163 kN/m	930 pli	without incision; ISO 34B
Abrasion	30	30	mm³; ISO 4649
Compression Set	26 %	26 %	70 hrs./22°C; ISO 815
	44 %	44 %	24 hrs./70°C; ISO 815

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	Injection
Nozzle Temperature	210 - 220 °C	410 - 428 °F	Injection
Zone 1	200 - 210 °C	392 - 410 °F	Injection
Zone 2	210 - 220 °C	410 - 428 °F	Injection
Zone 3	210 - 220 °C	410 - 428 °F	Injection
Zone 4	215 - 225 °C	419 - 437 °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	

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