

Lubrizol Estane® GP 58 DT Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyether Grade

Material Notes:

Type: Estane® GP 58DT is an aromatic polyether-based thermoplastic polyurethane (TPU).Features: Translucent spherical pellets.Uses: Injection molding parts, animal identification tagsAvailable in EuropeInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-GP-58-DT-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ISO 2781
Maximum Moisture Content	0.050	0.050	
Melt Flow	10 - 25 g/10 min @Load 8.70 kg, Temperature 210 °C	10 - 25 g/10 min @Load 19.2 lb, Temperature 410 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ISO 868
Tensile Strength, Ultimate	47.1 MPa	6830 psi	ISO 527
Tensile Strength, Yield	17.2 MPa	2490 psi	50% elongation
	19.7 MPa	2860 psi	100% elongation
	31.2 MPa	4530 psi	300% elongation
Elongation at Break	431 %	431 %	
Modulus of Elasticity	0.129 GPa	18.7 ksi	ISO 527
Rebound	31 %	31 %	ISO 4662
Tear Strength	142 kN/m	810 pli	Nicked; ISO 34-1B
	177 kN/m	1010 pli	Unnicked; ISO 34-1B
Abrasion	55	55	mm³; ISO 4649

Thermal Properties	Metric	English	Comments
Vicat Softening Point	132 °C	270 °F	A50; ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	Injection

Processing Properties	Metric	English	Comments
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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