

Lubrizol ESTANE® 58091 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: High stiffness TPU alloyUses: Flat Die/Cast Sheet Extrusion, Profile Extrusion and Injection MoldingAvailable in Americas, Europe, Middle East, Africa, India and AsiaInformation provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58091-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67 - 73	67 - 73	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength	29.0 MPa	4210 psi	ASTM D412
Elongation at Break	160 %	160 %	ASTM D412
100% Modulus	0.0283 GPa	4.10 ksi	ASTM D412
Flexural Modulus	0.441 GPa	64.0 ksi	ASTM D790
Graves Tear Strength	193 kN/m	1100 pli	Die C; ASTM D624

Thermal Properties	Metric	English	Comments
Melting Point	106 °C	223 °F	ASTM D1525
Glass Transition Temp, Tg	-11.0 °C	12.2 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	188 °C	370 °F	Extrusion
Zone 2	194 °C	381 °F	Extrusion
Zone 3	199 °C	390 °F	Extrusion
Zone 4	205 °C	401 °F	Extrusion
Adapter Temperature	205 °C	401 °F	5, Extrusion
Die Temperature	205 °C	401 °F	Zone 1, Extrusion

Processing Properties	^{205 °C} Metric	^{401 °F} English	Comments
Drying Temperature	104 °C	219 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

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