

Estane® 58091 TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58091 is a 70D aromatic Polyester-Based Thermoplastic Polyurethane (TPU).

Features: High stiffness TPU alloy

Uses: Flat Die/Cast Sheet Extrusion, Profile Extrusion and Injection Molding

General Information			
Features	Aroma		
	Rigid, good		
Uses	Sheet		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
	Sheet extrusion molding		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 5 sec)	67 - 73		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	47.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain, 0.762 mm)	28.3	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	29.0	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	160	%	ASTM D412
Tear Strength ¹ (0.762 mm)	193	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-11.0	°C	DSC
Melting Temperature	106	°C	DSC
Extrusion	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	188	°C	
Cylinder Zone 2 Temp.	194	°C	

Cylinder Zone 3 Temp.	199	°C
Cylinder Zone 4 Temp.	205	°C
Adapter Temperature	205	°C
Melt Temperature	202	°C
Die Temperature	205	°C

Extrusion instructions

Dew Point: -40°C Screen Pack Recommendation: 20/40/80/20

NOTE

1. C mould

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