



Estane® D91F88 EXP

Lubrizol Advanced Materials, Inc. - Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Tuesday, November 5, 2019

General Information

Product Description

Type: Aliphatic polycaprolactone based Thermoplastic Polyurethane (TPU) with a 90 Shore A Hardness.

Features: Clear resin with excellent colour stability upon UV exposure.

Uses: Cast film extrusion, profile extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Aliphatic	• Good Color Stability	• UV Resistant
Uses	• Cast Film	• Profiles	
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Cast Film	• Profile Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 2781
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
--	5800 to 6530	psi	
100% Strain	1020 to 1310	psi	
300% Strain	2610 to 3050	psi	
Tensile Strain (Break)	500 to 550	%	ISO 527-2
Abrasion Loss	35.0	mm ³	ISO 4649
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	90		ISO 868

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	140	°F
Drying Time	4.0	hr
Suggested Max Moisture	< 0.020	%
Cylinder Zone 1 Temp.	329 to 347	°F
Cylinder Zone 2 Temp.	347 to 365	°F
Cylinder Zone 3 Temp.	347 to 365	°F
Cylinder Zone 4 Temp.	365 to 383	°F
Adapter Temperature	374 to 392	°F
Die Temperature	374 to 392	°F

Notes

¹ Typical properties: these are not to be construed as specifications.