

Estane® 58238 TPU

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

Wednesday, November 6, 2019

General Information

Product Description

Type: Polyester Thermoplastic Polyurethane (TPU)

Special Feature: Excellent Elasticity, with Good Recovery and Low Temperature Properties

Processes: Extrusion: Blown, Flat Die Cast Film, and Injection Molding

General			
Material Status	Commercial: Active		
Availability	Latin America	North America	
Features	Excellent Elastic Recovery	Low Temperature Resistant	
Uses	Blown Film	Cast Film	
RoHS Compliance	RoHS Compliant		
Forms	• Pellets		
Processing Method	Blown Film Cast Film	ExtrusionInjection Molding	

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Nominal Value	Unit	Test Method
1.17		ASTM D792
Nominal Value	Unit	Test Method
		ASTM D3389
21.0	mg	
Nominal Value	Unit	Test Method
4	%	ASTM D412
653	psi	ASTM D412
1800	psi	ASTM D412
7010	psi	ASTM D412
680	%	ASTM D412
392	lbf/in	ASTM D624
100	lbf/in	ASTM D470
Nominal Value	Unit	Test Method
75		ASTM D2240
Nominal Value	Unit	Test Method
-49.0	°F	DSC
262	°F	DSC
	Nominal Value 1.17 Nominal Value 21.0 Nominal Value 4 653 1800 7010 680 392 100 Nominal Value 75 Nominal Value -49.0	Nominal Value Unit 1.17 Nominal Value Unit 21.0 mg Nominal Value Unit 4 % 653 psi 1800 psi 7010 psi 680 % 392 lbf/in 100 lbf/in Nominal Value Unit

Processing Information		
Extrusion	Nominal Value	Unit
Drying Temperature	219	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	351	°F
Cylinder Zone 2 Temp.	361	°F



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Extrusion	Nominal Value Unit
Cylinder Zone 3 Temp.	379 °F
Cylinder Zone 4 Temp.	381 °F
Adapter Temperature	381 °F
Melt Temperature	376 °F
Die Temperature	381 °F

Screen Pack Recommendation: 20/40/80

Notes

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