

Estane® 58238 TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

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 Information			
Features	Resilient recovery, excellent		
	Low temperature resistance		
Uses	Blown Film		
	cast film		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Blow film		
	Extrusion		
	cast film		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	21.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	4	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	4.50	MPa	ASTM D412
300% strain, 0.762mm	12.4	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	48.3	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	680	%	ASTM D412
Tear Strength			
0.762 mm	68.6	kN/m	ASTM D624
Cracking	18	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-45.0	°C	DSC

Melting Temperature	128	°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.	177	°C	
Cylinder Zone 2 Temp.	183	°C	
Cylinder Zone 3 Temp.	193	°C	
Cylinder Zone 4 Temp.	194	°C	
Adapter Temperature	194	°C	
Melt Temperature	191	°C	
Die Temperature	194	°C	
Extrusion instructions			

Screen Pack Recommendation: 20/40/80

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