

Estane® 58245 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Polyether Thermoplastic Polyurethane (TPU)
Special Feature: Moisture Vapor Transmission, with Excellent Low Temperature and Elasticity
Processes: Extrusion: Blown, Flat Die Cast Film

General Information			
Features	Low temperature resistance		
Uses	Blown Film		
	cast film		
	Fabric		
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
Forms	Particle		
Processing Method	Blow film		
	Extrusion		
	cast film		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	60.0	mg	ASTM D3389

Films	Nominal Value	Unit	Test Method
Water Vapor Transmission	1000	g/m ² /24 hr	ASTM E96
Water Vapor Transmission - Mocon ¹ (38°C)	6600	g/m ² /24 hr	ASTM D6701
Kofler Melting Temperature	135	°C	Internal method

Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	10	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	4.50	MPa	ASTM D412
300% strain, 0.762mm	8.30	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	31.0	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	700	%	ASTM D412
Tear Strength			

0.762 mm ²	61.8	kN/m	ASTM D624
Cracking	18	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-37.0	°C	ASTM D3418
Melting Temperature	135	°C	DSC
Extrusion	Nominal Value	Unit	
Drying Temperature	82.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	171	°C	
Cylinder Zone 2 Temp.	177	°C	
Cylinder Zone 3 Temp.	182	°C	
Cylinder Zone 4 Temp.	188	°C	
Adapter Temperature	193	°C	
Melt Temperature	191	°C	
Die Temperature	193	°C	
Extrusion instructions			
Screens: 20-40-80 meshDew Point: -40°C			
NOTE			
1.	90% RH		
2.	C mould		

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