

Estane® 58271 TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Type: Polyester Thermoplastic Polyurethane (TPU)
Special Feature: Good physical properties with chemical resistance and adhesive properties. Wide extrusion processing window
Processes: Extrusion: Blown, Flat Die Cast Film, Injection and Blow Molding

General Information	
Features	Workability, good
	Good adhesion
	Good chemical resistance
Uses	Blown Film
	Blow molding applications
	cast film
Agency Ratings	FDA 21 CFR 177.1680
	FDA 21 CFR 177.2600
RoHS Compliance	RoHS compliance
Appearance	Translucent
Forms	Particle
Processing Method	Blow film
	Blow molding
	Extrusion
	cast film
	Injection molding

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)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	34.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	13	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	5.50	MPa	ASTM D412
300% strain, 0.762mm	9.70	MPa	ASTM D412

Tensile Strength (Break, 0.762 mm)	51.7	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	540	%	ASTM D412
Tear Strength			
0.762 mm ¹	78.5	kN/m	ASTM D624
Cracking	23	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-25.0	°C	ASTM D3418
Melting Temperature	120	°C	DSC
Kofler Melting Temperature	115	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze ² (1650 μm)	1.1	%	ASTM D1003
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.	182	°C	
Cylinder Zone 3 Temp.	188	°C	
Cylinder Zone 4 Temp.	193	°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.	C mould		
2.	between glass		

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