

Estane® 58226 TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58226 is a 92A aromatic Polyester-Based Thermoplastic Polyurethane (TPU).
Features: Excellent physical properties, good chemical resistance and enhanced hydrolysis resistance. Wide processing window for extrusion.
Uses: Blown and flat die/cast film extrusion, Injection and blow molding.

General Information			
Features	Aroma		
	Workability, good		
	Good chemical resistance		
	Hydrolysis resistance		
Uses	Blown Film		
	Blow molding applications		
	cast film		
RoHS Compliance	RoHS compliance		
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, 5 sec)	89 - 95		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	40.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	21	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	7.60	MPa	ASTM D412
300% strain, 0.762mm	20.7	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	62.1	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	500	%	ASTM D412
Tear Strength			

0.762 mm ¹	100	kN/m	ASTM D624
Cracking	26	kN/m	ASTM D470
Aging	Nominal Value	Unit	Test Method
Change in Volume (24 hr, diesel)	8.0	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-25.0	°C	DSC
Melting Temperature	140	°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.	182	°C	
Cylinder Zone 2 Temp.	188	°C	
Cylinder Zone 3 Temp.	193	°C	
Cylinder Zone 4 Temp.	199	°C	
Adapter Temperature	204	°C	
Melt Temperature	202	°C	
Die Temperature	204	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80			
NOTE			

1. C mould

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