

Estane® 58226 TPU

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

Wednesday, November 6, 2019

General Information

Product Description

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			
Material Status	Commercial: Active		
Availability	Asia Pacific	Latin America	North America
Features	 Aromatic Chemical Resistant	Good ProcessabilityHydrolysis Resistant	
Uses	 Blow Molding Applications 	Blown Film	Cast Film
RoHS Compliance	RoHS Compliant		
Forms	• Pellets		
Processing Method	Blow MoldingBlown Film	Cast FilmExtrusion	Injection Molding

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density / Specific Gravity	1.21		ASTM D792		
Mechanical	Nominal Value	Unit	Test Method		
Taber Abrasion Resistance			ASTM D3389		
1000 Cycles, 1000 g, H-18 Wheel	40.0	mg			
Elastomers	Nominal Value	Unit	Test Method		
Tensile Set (200% Strain)	21	%	ASTM D412		
Tensile Stress (100% Strain, 0.0300 in)	1100	psi	ASTM D412		
Tensile Stress (300% Strain, 0.0300 in)	3000	psi	ASTM D412		
Tensile Strength (Break, 0.0300 in)	9010	psi	ASTM D412		
Tensile Elongation (Break, 0.0300 in)	500	%	ASTM D412		
Tear Strength ² (0.0300 in)	571	lbf/in	ASTM D624		
Tear Strength (Split)	150	lbf/in	ASTM D470		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore A, 5 sec)	89 to 95		ASTM D2240		
Thermal	Nominal Value	Unit	Test Method		
Glass Transition Temperature	-13.0	°F	DSC		
Melting Temperature	284	°F	DSC		
Aging	Nominal Value	Unit	Test Method		
Change in Volume (24 hr, in Diesel Fuel)	8.0	%	ASTM D471		

Processing Information				
Extrusion	Nominal Value Unit			
Drying Temperature	219 °F			
Drying Time	2.0 to 4.0 hr			



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Nominal Value Unit	
0.020 %	
360 °F	
370 °F	
379 °F	
390 °F	
399 °F	
396 °F	
399 °F	
	0.020 % 360 °F 370 °F 379 °F 390 °F 399 °F 396 °F

Dew Point: -40°C

Screen Pack Recommendation: 20/40/80

Notes

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

² Die C