

Estane® 58213 TPU

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

Wednesday, November 6, 2019

General Information

Product Description

Type: Estane® 58213 is a 75A aromatic Polyester-Based Thermoplastic Polyurethane (TPU).

Features: Excellent blend partner for PVC and general adhesive and good physical properties.

Uses: Flat die/cast film extrusion and hose jacketing, Calendaring/melt coating.

General			
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Features	Aromatic		
Uses	AdhesivesBlending	 Cast Film Coating Applications	• Hose
Agency Ratings	• FDA 21 CFR 177.1680	• FDA 21 CFR 177.2600	
RoHS Compliance	RoHS Compliant		
Forms	• Pellets		
Processing Method	CalenderingCast Film	CoatingExtrusion	

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	1.18		ASTM D792	
Mechanical	Nominal Value	Unit	Test Method	
Taber Abrasion Resistance			ASTM D3389	
1000 Cycles, 1000 g, H-18 Wheel	6.40	mg		
Elastomers	Nominal Value	Unit	Test Method	
Tensile Set (200% Strain)	6	%	ASTM D412	
Tensile Stress (100% Strain, 0.0300 in)	406	psi	ASTM D412	
Tensile Stress (300% Strain, 0.0300 in)	595	psi	ASTM D412	
Tensile Strength (Break, 0.0300 in)	5500	psi	ASTM D412	
Tensile Elongation (Break, 0.0300 in)	68	%	ASTM D412	
Tear Strength ² (0.0300 in)	302	lbf/in	ASTM D624	
Tear Strength (Split)	100	lbf/in	ASTM D470	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A, 5 sec)	72 to 78		ASTM D2240	
Thermal	Nominal Value	Unit	Test Method	
Glass Transition Temperature	-22.0	°F	DSC	
Melting Temperature	230	°F	DSC	
Kofler Melting Temperature	212	°F	Internal Method	

Processing Information				
Extrusion	Nominal Value Unit			
Drying Temperature	129 °F			
Drying Time	2.0 to 4.0 hr			



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0.020	%
221	
331	°F
340	°F
349	°F
360	°F
360	°F
354	°F
360	°F
	349 360 360 354

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