

Estane® 58213 TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

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 Information			
Features	Aroma		
Uses	Pipe		
	Mixing		
	cast film		
	Coating application		
	Adhesive		
Agency Ratings	FDA 21 CFR 177.1680		
	FDA 21 CFR 177.2600		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
	cast film		
	Coating		
	Calendering		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	72 - 78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	6.40	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	6	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	2.80	MPa	ASTM D412
300% strain, 0.762mm	4.10	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	37.9	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	68	%	ASTM D412
Tear Strength			

0.762 mm ¹	53.0	kN/m	ASTM D624
Cracking	18	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-30.0	°C	DSC
Melting Temperature	110	°C	DSC
Kofler Melting Temperature	100	°C	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	54.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	166	°C	
Cylinder Zone 2 Temp.	171	°C	
Cylinder Zone 3 Temp.	176	°C	
Cylinder Zone 4 Temp.	182	°C	
Adapter Temperature	182	°C	
Melt Temperature	179	°C	
Die Temperature	182	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80			
NOTE			
1.	C mould		

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