

Estane® 58246 TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58246 is a 50D aromatic Polyester-Based Thermoplastic Polyurethane (TPU).

Features: High stiffness grade with excellent chemical and oil resistance.

Uses: Flat Die/Cast Film Extrusion and Injection Molding.

General Information			
Features	Aroma		
	Rigidity, high		
	Good chemical resistance		
	Oil resistance		
Uses	cast film		
Agency Ratings	FDA 21 CFR 177.1680		
	FDA 21 CFR 177.2600		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
	cast film		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 5 sec)	47 - 53		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	12	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	12.4	MPa	ASTM D412
300% strain, 0.762mm	30.7	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	64.1	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	420	%	ASTM D412
Tear Strength			
0.762 mm ¹	140	kN/m	ASTM D624
Cracking	31	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-20.0	°C	DSC
Melting Temperature	170	°C	DSC

Kofler Melting Temperature	160	°C	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	199	°C	
Cylinder Zone 2 Temp.	204	°C	
Cylinder Zone 3 Temp.	210	°C	
Cylinder Zone 4 Temp.	216	°C	
Adapter Temperature	221	°C	
Melt Temperature	218	°C	
Die Temperature	221	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80/20			
NOTE			
1.	C mould		

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