

Estane® 58325 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58325 is an 85A aromatic Polyether-Based Thermoplastic Polyurethane (TPU).

Features: High melt strength for thick sheet extrusion.

Uses: Blown and Flat Die/Cast Extrusion, Tubing and Profile Extrusion

General Information			
Features	Aroma		
	Good melt strength		
Uses	Blown Film		
	Pipe fittings		
	cast film		
	Sheet		
	Profile		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Blow film		
	Extrusion		
	cast film		
	Sheet extrusion molding		
	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	82 - 88		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	63.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	10	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	5.50	MPa	ASTM D412
300% strain, 0.762mm	9.70	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	51.7	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	600	%	ASTM D412
Tear Strength			

0.762 mm ¹	79.4	kN/m	ASTM D624
Cracking	25	kN/m	ASTM D470
Aging	Nominal Value	Unit	Test Method
Change in Volume (23°C, 24 hr, in water)	1.7	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-44.0	°C	DSC
Melting Temperature	131	°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.	183	°C	
Cylinder Zone 2 Temp.	188	°C	
Cylinder Zone 3 Temp.	194	°C	
Cylinder Zone 4 Temp.	199	°C	
Adapter Temperature	199	°C	
Melt Temperature	196	°C	
Die Temperature	199	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80/20			
NOTE			

1. C mould

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