

Estane® 58370 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58370 TPU is an 80A Polyether-Type Thermoplastic Polyurethane.

Features: Halogenated flame retardant compound

Uses: Extrusion - Wire and cable and general application where flame retardant properties are needed

General Information			
UL YellowCard	E106426-218374		
Additive	Flame retardancy		
Features	Halogenated		
	Good chemical resistance		
	Oil resistance		
	Good toughness		
	Flame retardancy		
Uses	Wire and cable applications		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Wire & Cable Extrusion		
	Extrusion		
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)	77 - 83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	3.00	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 0.762mm	4.80	MPa	ASTM D412
300% strain, 0.762mm	6.60	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	29.7	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	690	%	ASTM D412
Tear Strength			
0.762 mm ¹	59.8	kN/m	ASTM D624
Cracking	18	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-50.0	°C	DSC

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
Oxygen Index	28	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	175	°C	
Cylinder Zone 2 Temp.	180	°C	
Cylinder Zone 3 Temp.	188	°C	
Cylinder Zone 4 Temp.	194	°C	
Adapter Temperature	194	°C	
Melt Temperature	188	°C	
Die Temperature	188 - 194	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80/20			
NOTE			
1.	C mould		

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