

Estane® 58370 TPU

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

Wednesday, November 6, 2019

General Information

Product Description

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

North America		
Oil Resistant		
RoHS Compliant		
usion		

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, CS-17 Wheel	3.00	mg		
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress (100% Strain, 0.0300 in)	696	psi	ASTM D412	
Tensile Stress (300% Strain, 0.0300 in)	957	psi	ASTM D412	
Tensile Strength (Break, 0.0300 in)	4310	psi	ASTM D412	
Tensile Elongation (Break, 0.0300 in)	690	%	ASTM D412	
Tear Strength ² (0.0300 in)	342	lbf/in	ASTM D624	
Tear Strength (Split)	100	lbf/in	ASTM D470	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A, 5 sec)	77 to 83		ASTM D2240	
Thermal	Nominal Value	Unit	Test Method	
Glass Transition Temperature	-58.0	°F	DSC	
Flammability	Nominal Value	Unit	Test Method	
Flame Rating	V-2		UL 94	
Oxygen Index	28	%	ASTM D2863	

Processing Information			
Extrusion	Nominal Value Unit		
Drying Temperature	219 °F		
Drying Time	2.0 to 4.0 hr		



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Extrusion	Nominal Value	Unit
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	347	°F
Cylinder Zone 2 Temp.	356	°F
Cylinder Zone 3 Temp.	370	°F
Cylinder Zone 4 Temp.	381	°F
Adapter Temperature	381	°F
Melt Temperature	370	°F
Die Temperature	370 to 381	°F

Extrusion Notes

Dew Point: -40°C

Screen Pack Recommendation: 20/40/80/20

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C