

Estane® 58211 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58211 is a 90A Polyether-Type Thermoplastic Polyurethane (TPU).

Features: Halogenated flame retardant compound - High hardness

Uses: Extrusion - wire and cable jacketing and general extrusion where flame retardant properties are required

General Information			
UL YellowCard	E106426-218369		
Additive	Flame retardancy		
Features	Halogenated		
	Good chemical resistance		
	Oil resistance		
	High hardness		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Wire & Cable Extrusion		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	87 - 93		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	235	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 0.762mm	8.60	MPa	ASTM D412
300% strain, 0.762mm	14.8	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	27.9	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	340	%	ASTM D412
Tear Strength			
0.762 mm ¹	84.3	kN/m	ASTM D624
Cracking	22	kN/m	ASTM D470

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-38.0	°C	DSC
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	32	%	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.	183	°C	
Cylinder Zone 2 Temp.	188	°C	
Cylinder Zone 3 Temp.	196	°C	
Cylinder Zone 4 Temp.	199	°C	
Adapter Temperature	202	°C	
Melt Temperature	190	°C	
Die Temperature	196 - 202	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40			
NOTE			
1. C mould			

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