

Estane® 58810 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58810 TPU is a 90A Polyether-Type thermoplastic polyurethane

Description: High melt flow and improved temperature resistance

Uses: Extrusion - Wire and cable, Hose and tube

General Information	
Features	High liquidity
	Heat resistance, medium
Uses	Wire and cable applications
	Pipe
	Pipe fittings
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Wire & Cable Extrusion
	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	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
Flexural Modulus (23°C)	37.7	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	41.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 0.762mm	9.00	MPa	ASTM D412
300% strain, 0.762mm	17.2	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	38.3	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	530	%	ASTM D412
Tear Strength			
0.762 mm ¹	59.8	kN/m	ASTM D624
Cracking	18	kN/m	ASTM D470
Compression Set			ASTM D395
23°C, 22 hr	25	%	ASTM D395
70°C, 22 hr	60	%	ASTM D395

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-44.0	°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.	176	°C	
Cylinder Zone 2 Temp.	182	°C	
Cylinder Zone 3 Temp.	191	°C	
Cylinder Zone 4 Temp.	196	°C	
Adapter Temperature	199	°C	
Melt Temperature	196	°C	
Die Temperature	194 - 196	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80/20			
NOTE			

1. C mould

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