

Estane® 58630 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58630 is an 82A aromatic Polyether-Based Thermoplastic Polyurethane (TPU).
Features: Good physical properties, hydrolysis resistance, low temperature performance and abrasion along with wide processing window for extrusion and low surface tack.
Uses: Blown and flat die/cast film extrusion and cable jacketing.

General Information	
Features	Aroma
	Workability, good
	Good wear resistance
	Low temperature resistance
	Hydrolysis resistance
Uses	Blown Film
	Cable sheath
	Wire and cable applications
	cast film
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Blow film
	Wire & Cable Extrusion
	Extrusion
	cast film

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)	79 - 85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	60.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	15	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	5.20	MPa	ASTM D412
300% strain, 0.762mm	7.60	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	41.4	MPa	ASTM D412

Tensile Elongation (Break, 0.762 mm)	640	%	ASTM D412
Tear Strength			
0.762 mm ¹	69.6	kN/m	ASTM D624
Cracking	23	kN/m	ASTM D470
Aging	Nominal Value	Unit	Test Method
Change in Volume (23°C, 24 hr, in water)	2.1	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-50.0	°C	DSC
Melting Temperature	120	°C	DSC
Kofler Melting Temperature	125	°C	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	166	°C	
Cylinder Zone 2 Temp.	171	°C	
Cylinder Zone 3 Temp.	177	°C	
Cylinder Zone 4 Temp.	182	°C	
Adapter Temperature	182	°C	
Melt Temperature	179	°C	
Die Temperature	182	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80			
NOTE			

1. C mould

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