

# Estane® 58881 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

## Message:

Type: Estane® 58881 TPU is an 80A Polyether-Type Thermoplastic Polyurethane.

Features: Excellent low temperature flexibility, and superior abrasion and cut resistance

Uses: Extrusion - Wire and cable, Hose and tube & General purpose

General Information	
Features	Shock absorption
	Good wear resistance
Uses	Wire and cable applications
	Pipe
	Pipe fittings
	General
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Filament power winding
	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	77 - 83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (23°C)	17.1	MPa	ASTM D790
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	6.80	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	23.4	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	710	%	ASTM D412
Tear Strength			
0.762 mm <sup>1</sup>	54.9	kN/m	ASTM D624
Cracking	18	kN/m	ASTM D470
Compression Set			ASTM D395
23°C, 22 hr	18	%	ASTM D395

70°C, 22 hr	61	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-52.0	°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.	177	°C	
Cylinder Zone 2 Temp.	182	°C	
Cylinder Zone 3 Temp.	188	°C	
Cylinder Zone 4 Temp.	191	°C	
Adapter Temperature	191	°C	
Die Temperature	185 - 191	°C	
Extrusion instructions			
Dew Point: -40°C			
NOTE			

1. C mould

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

