Estane® 58863 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58863 TPU is an 85A Polyether-Type Thermoplastic Polyurethane.
Features: Good Elasticity - High melt flow for easy processing
Uses: Extrusion - Wire and cable, general extrusion

General Information	
Features	Workability, good High liquidity
Uses	Wire and cable applications
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Wire & Cable Extrusion Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 5 sec)	82 - 88		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus (23°C)	41.0	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	4.50	mg	ASTM D3389
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% strain, 0.762mm	6.90	MPa	ASTM D412
300% strain, 0.762mm	11.0	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	40.7	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	600	%	ASTM D412
Tear Strength			
0.762 mm [1]	66.7	kN/m	ASTM D624
Cracking	23	kN/m	ASTM D470
Compression Set			ASTM D395
23°C, 22 hr	20	%	ASTM D395
70°C, 22 hr	66	%	ASTM D395
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-50.0	°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.	174	°C
Cylinder Zone 2 Temp.	180	°C
Cylinder Zone 3 Temp.	188	°C
Cylinder Zone 4 Temp.	194	°C
Adapter Temperature	194	°C
Melt Temperature	192	°C
Die Temperature	185 - 191	°C

Extrusion instructions
Dew Point: -40°CScreen Pack Recommendation: 20/40/80/20

NOTE	
1.	C mould

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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