

## Lubrizol ESTANE® 58881 Ether Based Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

### Material Notes:

Features: Very high tensile strength, excellent low temperature flexibility, and superior abrasion and cut resistance  
 Uses: Extrusion – Wire and cable, Hose and tube & General purpose  
 Available in Americas, Europe, Middle East, Africa, India and Asia  
 Information provided by Lubrizol.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-ESTANE-58881-Ether-Based-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58881-Ether-Based-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77 - 83	77 - 83	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	23.4 MPa	3390 psi	ASTM D412
Elongation at Break	710 %	710 %	ASTM D412
100% Modulus	0.00480 GPa	0.696 ksi	ASTM D412
300% Modulus	0.00680 GPa	0.986 ksi	ASTM D412
Flexural Modulus	0.0171 GPa	2.48 ksi	ASTM D790
Tear Strength	17.5 kN/m	100 pli	Trouser; ASTM D470
Graves Tear Strength	55.2 kN/m	315 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	3.0	3.0	CS-17, 1000g; ASTM D3389 B
Compression Set	18 %	18 %	
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	61 %	61 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-52.0 °C	-61.6 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	177 °C	351 °F	Extrusion
Zone 2	182 °C	360 °F	Extrusion
Zone 3	188 °C	370 °F	Extrusion
Zone 4	191 °C	376 °F	Extrusion
Adapter Temperature	191 °C	376 °F	5, Extrusion
Die Temperature	185 °C	365 °F	Zone 2, Extrusion
	191 °C	376 °F	6, Zone 1, Extrusion
Drying Temperature	104 °C	219 °F	DSC
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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