

## Lubrizol ESTANE® 58284 Ether Based Thermoplastic Polyurethane

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

### Material Notes:

Features: Matte finish, superior durability  
 Uses: Extrusion – wire and cable, General application  
 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-58284-Ether-Based-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58284-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	82 - 88	82 - 88	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	48.3 MPa	7010 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412/D638
100% Modulus	0.00700 GPa	1.02 ksi	ASTM D412
300% Modulus	0.0131 GPa	1.90 ksi	ASTM D412
Tear Strength	12.4 kN/m	71.0 pli	Trouser; ASTM D470
Graves Tear Strength	167 kN/m	950 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	83	83	H-18, 1000g; ASTM D3389 B
Compression Set	19 %	19 %	
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	68 %	68 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-44.0 °C	-47.2 °F	

Processing Properties	Metric	English	Comments
Zone 1	174 °C	345 °F	Extrusion

Processing Properties <small>Zone 2</small>	Metric <small>179 °C</small>	English <small>354 °F</small>	Comments <small>Extrusion</small>
Zone 3	185 °C	365 °F	Extrusion
Zone 4	191 °C	376 °F	Extrusion
Adapter Temperature	191 °C	376 °F	Extrusion
Die Temperature	179 °C	354 °F	Zone 2, Extrusion
	185 °C	365 °F	Zone 1, Extrusion
Drying Temperature	104 °C	219 °F	
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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