

## Lubrizol ESTANE® 58202 Ether Based Thermoplastic Polyurethane

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

### Material Notes:

Features: Halogenated flame retardant compound with good low temperature properties and cut resistance  
 Uses: Extrusion – wire and cable jacketing and general extrusion where flame retardant properties are required.  
 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-58202-Ether-Based-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58202-Ether-Based-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Loss On Ignition	32 %	32 %	ASTM D2863
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82 - 88 @Time 5.00 sec	82 - 88 @Time 0.00139 hour	ASTM D2240
Tensile Strength	27.6 MPa	4000 psi	ASTM D412
Elongation at Break	650 %	650 %	ASTM D412/D638
100% Modulus	0.00550 GPa	0.798 ksi	ASTM D412
300% Modulus	0.00190 GPa	0.276 ksi	ASTM D412
Tear Strength	18.4 kN/m	105 pli	Trouser; ASTM D470
Graves Tear Strength	63.1 kN/m	360 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	155	155	H-18, 1000g; ASTM D3389 B

Thermal Properties	Metric	English	Comments
Melting Point	115 °C	239 °F	DSC
Glass Transition Temp, Tg	-45.0 °C	-49.0 °F	DSC
Flammability Test	5.0	5.0	

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

<b>Zone 2 Processing Properties</b>	<b>179 °C Metric</b>	<b>354 °F English</b>	<b>Extrusion Comments</b>
Zone 3	185 °C	365 °F	Extrusion
Zone 4	188 °C	370 °F	Extrusion
Adapter Temperature	188 °C	370 °F	5, Extrusion
Die Temperature	188 °C	370 °F	Zone 1, 6, Extrusion
	188 °C	370 °F	Zone 2, 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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