

## Lubrizol Estane® S180A Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

**Material Notes:**

Type: Estane® S180A is a Shore 83A, polyester based thermoplastic polyurethane (TPU). FDA approved (21 CFR 177.2600, 177.1680). Uses: Injection Molding, Extrusion. Availability: Americas, Europe, Middle East, Africa, India and Asia. Information Provided by The Lubrizol Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Estane-S180A-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-Estane-S180A-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	83	83	ASTM D2240
Tensile Strength, Ultimate	34.3 MPa	4980 psi	ASTM D412
Tensile Strength, Yield	4.41 MPa	640 psi	at 100% elongation; ASTM D412
	8.83 MPa	1280 psi	at 300% elongation; ASTM D412
Elongation at Break	770 %	770 %	ASTM D412
Tear Strength	88.3 kN/m	504 pli	Die C; ASTM D624
Abrasion	30	30	mm <sup>3</sup> loss; ISO 4649
Compression Set	15 %	15 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	35 %	35 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 °C	185 °F	ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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