

## Lubrizol Estane® CS190A Thermoplastic Polyurethane

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

**Material Notes:**

Type: Estane® CS190A is a Shore 90A, polyester grade, calendaring processible thermoplastic polyurethane (TPU). FDA approved (21 CFR 177.2600, 177.1680).Uses: Calendaring, Molt roll processing.Information Provided by The Lubrizol Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Estane-CS190A-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-Estane-CS190A-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Tensile Strength, Ultimate	34.3 MPa	4980 psi	ASTM D412
Tensile Strength, Yield	6.37 MPa	925 psi	at 100% elongation; ASTM D412
	11.3 MPa	1640 psi	at 300% elongation; ASTM D412
Elongation at Break	720 %	720 %	ASTM D412
Tear Strength	93.2 kN/m	532 pli	Die C; ASTM D624
Compression Set	20 %	20 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	45 %	45 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	80.0 °C	176 °F	ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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