

## Lubrizol Estane® X-585A-31 Thermoplastic Polyurethane

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

### Material Notes:

Type: Estane® X585A-31 is a Shore 95A, polyester grade without lubricant thermoplastic polyurethane (TPU). USP Class VI Certified. Uses: Extrusion, Film Blowing. Information Provided by The Lubrizol Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Estane-X-585A-31-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-Estane-X-585A-31-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Melt Flow	12 g/10 min	12 g/10 min	ASTM D1238
	@Load 8.70 kg, Temperature 190 °C	@Load 19.2 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ASTM D2240
Tensile Strength, Ultimate	29.4 MPa	4270 psi	ASTM D412
Tensile Strength, Yield	5.39 MPa	782 psi	at 100% elongation; ASTM D412
	9.32 MPa	1350 psi	at 300% elongation; ASTM D412
Elongation at Break	770 %	770 %	ASTM D412
Tear Strength	93.2 kN/m	532 pli	Die C; ASTM D624
Compression Set	25 %	25 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	65 %	65 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	145 - 175 °C	293 - 347 °F	DSC; ASTM D3418
Vicat Softening Point	90.0 °C	194 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Die Temperature	185 °C	365 °F	

Descriptive Properties	Value	Comments
Adaptor (°C)	195	

## Contact Songhan Plastic Technology Co.,Ltd.

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