

Lubrizol Estane® R180A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® R180A is a Shore 83A, polyether type thermoplastic polyurethane (TPU). FDA approved (21 CFR 177.2600, 177.1680). Uses: Injection Molding, Extrusion. Availability: Asia Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-R180A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 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	24.5 MPa	3560 psi	ASTM D412
Tensile Strength, Yield	4.90 MPa	711 psi	at 100% elongation; ASTM D412
	7.85 MPa	1140 psi	at 300% elongation; ASTM D412
Elongation at Break	790 %	790 %	ASTM D412
Tear Strength	78.5 kN/m	448 pli	Die C; ASTM D624
Abrasion	35	35	mm ³ loss; ISO 4649
Compression Set	15 %	15 %	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	82.0 °C	180 °F	ASTM D1525

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.comEmail : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China