

Lubrizol Estane® CR180A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® CR180A is a Shore 82A, polyether 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-CR180A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Tensile Strength, Ultimate	19.6 MPa	2840 psi	ASTM D412
Tensile Strength, Yield	4.90 MPa	711 psi	at 100% elongation; ASTM D412
	8.34 MPa	1210 psi	at 300% elongation; ASTM D412
Elongation at Break	800 %	800 %	ASTM D412
Tear Strength	88.3 kN/m	504 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	
	50 %	50 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	70.0 °C	158 °F	ASTM D1525

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