

Lubrizol Estane® S185A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® S185A is a Shore 87A, polyester based 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-S185A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	ASTM D2240
Tensile Strength, Ultimate	39.2 MPa	5690 psi	ASTM D412
Tensile Strength, Yield	6.37 MPa	925 psi	at 100% elongation; ASTM D412
	11.8 MPa	1710 psi	at 300% elongation; ASTM D412
Elongation at Break	650 %	650 %	ASTM D412
Tear Strength	108 kN/m	616 pli	Die C; ASTM D624
Abrasion	30	30	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	
	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	95.0 °C	203 °F	ASTM D1525

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