

Lubrizol Estane® R190A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® R190A is a Shore 93A, 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-R190A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93	93	ASTM D2240
Hardness, Shore D	47	47	ASTM D2240
Tensile Strength, Ultimate	36.3 MPa	5260 psi	ASTM D412
Tensile Strength, Yield	9.81 MPa	1420 psi	at 100% elongation; ASTM D412
	16.7 MPa	2420 psi	at 300% elongation; ASTM D412
Elongation at Break	680 %	680 %	ASTM D412
Tear Strength	108 kN/m	616 pli	Die C; ASTM D624
Abrasion	25	25	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	125 °C	257 °F	ASTM D1525

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