

Lubrizol Estane® S168D Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® S168D is a Shore 68D, polyester grade thermoplastic polyurethane (TPU). FDA approved (21 CFR 177.2600, 177.1680).Uses: Injection Molding.Availability: AsiaInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-S168D-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Ultimate	44.1 MPa	6400 psi	ASTM D412
Tensile Strength, Yield	27.5 MPa	3980 psi	at 100% elongation; ASTM D412
	39.2 MPa	5690 psi	at 300% elongation; ASTM D412
Elongation at Break	430 %	430 %	ASTM D412
Tear Strength	245 kN/m	1400 pli	Die C; ASTM D624
Abrasion	25	25	mm ³ loss; ISO 4649
Compression Set	20 %	20 %	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	163 °C	325 °F	ASTM D1525

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