

Lubrizol Estane® S198A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® S198A is a Shore 98A, polyester grade thermoplastic polyurethane (TPU). FDA approved (21 CFR 177.2600, 177.1680).Uses: Injection Molding.Availability: Americas, Europe, Middle East, Africa, India and AsiaInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-S198A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	98	98	ASTM D2240
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ASTM D412
Tensile Strength, Yield	15.7 MPa	2280 psi	at 100% elongation; ASTM D412
	29.4 MPa	4270 psi	at 300% elongation; ASTM D412
Elongation at Break	520 %	520 %	ASTM D412
Tear Strength	177 kN/m	1010 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	
	40 %	40 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	143 °C	289 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Feed Temperature	190 - 205 °C	374 - 401 °F	

Processing Properties	200 - 215 °C Metric	392 - 419 °F English	Comments
Mold Temperature	10.0 - 40.0 °C	50.0 - 104 °F	
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	
Injection Pressure	11.7 - 15.9 MPa	1700 - 2300 psi	
Hold Pressure	8.27 - 12.4 MPa	1200 - 1800 psi	
Back Pressure	0.207 - 0.552 MPa	30.0 - 80.0 psi	
Cycle Time - Injection	25 - 35 sec	25 - 35 sec	
Screw Speed	180 - 220 rpm	180 - 220 rpm	

Descriptive Properties	Value	Comments
Injection time (s)	12-18	
Metering Zone	200-215°C	

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