

Lubrizol Estane® S398A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® S398A is a Shore 98A, polyester based thermoplastic polyurethane (TPU) with excellent transparency. FDA approved (21 CFR 177.2600, 177.1680).Uses: Injection Molding.Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-S398A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 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	98	98	ASTM D2240
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength, Ultimate	42.2 MPa	6120 psi	ASTM D412
Tensile Strength, Yield	19.6 MPa	2840 psi	at 100% elongation; ASTM D412
	31.4 MPa	4550 psi	at 300% elongation; ASTM D412
Elongation at Break	420 %	420 %	ASTM D412
Tear Strength	167 kN/m	952 pli	Die C; ASTM D624
Abrasion	30	30	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	116 °C	241 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Feed Temperature	180 - 195 °C	356 - 383 °F	

Nozzle Temperature Processing Properties	190 - 205 °C Metric	374 - 401 °F English	Comments
Mold Temperature	10.0 - 40.0 °C	50.0 - 104 °F	
Injection Pressure	8.27 - 13.8 MPa	1200 - 2000 psi	
Hold Pressure	5.52 - 9.65 MPa	800 - 1400 psi	
Back Pressure	0.207 - 0.552 MPa	30.0 - 80.0 psi	
Cycle Time - Injection	20 - 30 sec	20 - 30 sec	
Screw Speed	160 - 200 rpm	160 - 200 rpm	

Descriptive Properties	Value	Comments
Injection time (s)	10-15	

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