

Lubrizol Estane® S392A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® S392A is a Shore 93A, polyester based thermoplastic polyurethane (TPU) with excellent transparency. FDA approved (21 CFR 177.2600, 177.1680).Uses: Injection Molding, Extrusion, Blow Molding.Availability: AsiaInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-S392A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 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	93	93	ASTM D2240
Hardness, Shore D	50	50	ASTM D2240
Tensile Strength, Ultimate	44.1 MPa	6400 psi	ASTM D412
Tensile Strength, Yield	9.81 MPa	1420 psi	at 100% elongation; ASTM D412
	19.6 MPa	2840 psi	at 300% elongation; ASTM D412
Elongation at Break	650 %	650 %	ASTM D412
Tear Strength	118 kN/m	672 pli	Die C; ASTM D624
Abrasion	35	35	mm³ loss; ISO 4649
Compression Set	15 % @Temperature 23.0 °C, Time 79200 sec	15 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395
	45 % @Temperature 70.0 °C, Time 79200 sec	45 % @Temperature 158 °F, Time 22.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Vicat Softening Point	110 °C	230 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Feed Temperature	175 - 190 °C	347 - 374 °F	

Nozzle Temperature Processing Properties	185 - 200 °C Metric	365 - 392 °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	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	25 - 35 sec	25 - 35 sec	
Screw Speed	160 - 200 rpm	160 - 200 rpm	

Descriptive Properties	Value	Comments
Injection time (s)	10-15	
Metering Zone	180-195°C	

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