

Lubrizol Estane® L194A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® L194A is a Shore 95A, polyester grade thermoplastic polyurethane (TPU).Uses: Injection Molding.Availability:

AsiaInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-L194A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 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	94	94	ASTM D2240
Hardness, Shore D	52	52	ASTM D2240
Tensile Strength, Ultimate	41.2 MPa	5970 psi	ASTM D412
Tensile Strength, Yield	13.7 MPa	1990 psi	100% elongation; ASTM D412
	29.4 MPa	4270 psi	300% elongation; ASTM D412
Elongation at Break	440 %	440 %	ASTM D412
100% Modulus	0.0137 GPa	1.99 ksi	ASTM D412
300% Modulus	0.0294 GPa	4.26 ksi	ASTM D412
Tear Strength	167 kN/m	952 pli	Die C; ASTM D624
Compression Set	15 %	15 %	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	130 °C	266 °F	ASTM D1525

Processing Properties	Metric	English	Comments
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Feed Temperature Processing Properties	185 - 200 °C Metric	365 - 392 °F English	Comments
Nozzle Temperature	200 - 215 °C	392 - 419 °F	
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 - 200 rpm	180 - 200 rpm	

Descriptive Properties	Value	Comments
Injection time (s)	12-18	
Metering Zone	195-210°C	

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