

Lubrizol Estane® T865A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® T865A is a Shore 71A, polyester grade, plasticized low hardness thermoplastic polyurethane (TPU). Uses: Injection Molding, Extrusion. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-T865A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	ASTM D2240
Tensile Strength, Ultimate	14.7 MPa	2130 psi	ASTM D412
Tensile Strength, Yield	2.94 MPa	427 psi	at 100% elongation; ASTM D412
	5.39 MPa	782 psi	at 300% elongation; ASTM D412
Elongation at Break	700 %	700 %	ASTM D412
Tear Strength	39.2 kN/m	224 pli	Die C; ASTM D624

Processing Properties	Metric	English	Comments
Feed Temperature	165 - 180 °C	329 - 356 °F	
Nozzle Temperature	180 - 195 °C	356 - 383 °F	
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	30 - 40 sec	30 - 40 sec	
Screw Speed	160 - 200 rpm	160 - 200 rpm	

Descriptive Properties	Value	Comments
Injection time (s)	15-20	

Descriptive Properties

Value

Comments

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