

Lubrizol Estane® T465A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® T465A is a Shore 71A, polyester grade, plasticizer-free, with 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-T465A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 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	71	71	ASTM D2240
Tensile Strength, Ultimate	21.6 MPa	3130 psi	ASTM D412
Tensile Strength, Yield	2.55 MPa	370 psi	at 100% elongation; ASTM D412
	4.51 MPa	654 psi	at 300% elongation; ASTM D412
Elongation at Break	950 %	950 %	ASTM D412
Tear Strength	58.8 kN/m	336 pli	Die C; ASTM D624
Compression Set	10 %	10 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	30 %	30 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	75.0 °C	167 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Feed Temperature	165 - 180 °C	329 - 356 °F	
Nozzle Temperature	175 - 190 °C	347 - 374 °F	
Mold Temperature	10.0 - 40.0 °C	50.0 - 104 °F	

Injection Pressure Processing Properties	8.27 - 13.8 MPa Metric	1200 - 2000 psi English	Comments
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	35 - 45 sec	35 - 45 sec	
Screw Speed	160 - 200 rpm	160 - 200 rpm	

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

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