

Lubrizol Estane® T470A Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® T470A is a Shore 77A, polyester grade, plasticizer-free, with low hardness thermoplastic polyurethane (TPU). Uses: Injection Molding, Extrusion. Availability: Asia Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-T470A-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	ASTM D2240
Tensile Strength, Ultimate	27.5 MPa	3980 psi	ASTM D412
Tensile Strength, Yield	3.53 MPa	512 psi	at 100% elongation; ASTM D412
	5.88 MPa	853 psi	at 300% elongation; ASTM D412
Elongation at Break	900 %	900 %	ASTM D412
Tear Strength	73.5 kN/m	420 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	
	35 %	35 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	77.0 °C	171 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Feed Temperature	170 - 185 °C	338 - 365 °F	
Nozzle Temperature	180 - 195 °C	356 - 383 °F	
Mold Temperature	10.0 - 40.0 °C	50.0 - 104 °F	

Drying Temperature Processing Properties	70.0 - 80.0 °C Metric	158 - 176 °F English	Comments
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)	15-20	
Metering Zone	175-190°C	

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