

Lubrizol Advanced Materials PEARLTHANE® 11T80 Thermoplastic Polyurethane Elastomer

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

Material Notes:

Type : Pearlthane® 11T80 is a polycaprolactone copolyester-based thermoplastic polyurethane. Main Application : Injection

Moulding Special Features : Combining hardness with excellent mechanical properties as well as an improved transparency. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-11T80-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ISO 868
Tensile Strength	40.00 MPa	5801 psi	ISO 527-2/5A/500
Elongation at Break	630 %	630 %	ISO 527-2/5A/500
50% Modulus	0.00400 GPa	0.580 ksi	ISO 527-2/5A/500
100% Modulus	0.00500 GPa	0.725 ksi	ISO 527-2/5A/500
300% Modulus	0.00800 GPa	1.16 ksi	ISO 527-2/5A/500
Tear Strength	79.8 kN/m	455 pli	ISO 34-1B
Abrasion	20	20	loss (mm ³); ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	77.0 °C	171 °F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	
Nozzle Temperature	185 - 215 °C	365 - 419 °F	
Zone 1	180 - 210 °C	356 - 410 °F	
Zone 2	185 - 215 °C	365 - 419 °F	
Zone 3	190 - 220 °C	374 - 428 °F	

Zone 4 Processing Properties	185 - 215 Å°C Metric	365 - 419 Å°F English	Comments
Dry Time	3.00 hour @Temperature 100 Å°C	3.00 hour @Temperature 212 Å°F	

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