

Lubrizol Advanced Materials PEARLTHANE® 11T85E Thermoplastic Polyurethane Elastomer

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

Material Notes:

Type: Pearlthane® 11T85E is a polycaprolactone copolyester-based thermoplastic polyurethane. Main Application :

Extrusion/Moulding Special Features : Combining hardness with excellent mechanical properties. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-11T85E-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	86	86	ISO 868
Tensile Strength, Yield	35.00 MPa	5076 psi	ISO 527-2/5A/500
Elongation at Break	650 %	650 %	ISO 527-2/5A/500
50% Modulus	0.00500 GPa	0.725 ksi	ISO 527-2/5A/500
100% Modulus	0.00600 GPa	0.870 ksi	ISO 527-2/5A/500
300% Modulus	0.01100 GPa	1.595 ksi	ISO 527-2/5A/500
Tear Strength	90.3 kN/m	515 pli	ISO 34-1B
Abrasion	25	25	loss (mm ³); ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 Â°C	194 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Zone 1	175 - 195 Â°C	347 - 383 Â°F	
Zone 2	185 - 205 Â°C	365 - 401 Â°F	
Zone 3	195 - 215 Â°C	383 - 419 Â°F	
Zone 4	200 - 220 Â°C	392 - 428 Â°F	
Adapter Temperature	200 - 220 Â°C	392 - 428 Â°F	5
Die Cooling Temperature	190 - 210 Â°C	374 - 410 Â°F	6

Processing Properties	190 - 210 Â°C Metric	374 - 410 Â°F English	TIP 7 Comments
Dry Time	3.00 hour @Temperature 100 Â°C	3.00 hour @Temperature 212 Â°F	

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