

Lubrizol Advanced Materials PEARLTHANE® 11T92E Thermoplastic Polyurethane Elastomer

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

Material Notes:

Type: Pearlthane® 11T92E 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-11T92E-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93	93	ISO 868
Tensile Strength, Yield	42.00 MPa	6091 psi	ISO 527-2/5A/500
Elongation at Break	560 %	560 %	ISO 527-2/5A/500
50% Modulus	0.00800 GPa	1.16 ksi	ISO 527-2/5A/500
100% Modulus	0.0100 GPa	1.45 ksi	ISO 527-2/5A/500
300% Modulus	0.02099 GPa	3.045 ksi	ISO 527-2/5A/500
Tear Strength	130 kN/m	740 pli	ISO 34-1B
Abrasion	25	25	loss (mm ³); ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	98.0 Â°C	208 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Zone 1	190 - 200 Â°C	374 - 392 Â°F	
Zone 2	195 - 210 Â°C	383 - 410 Â°F	
Zone 3	200 - 215 Â°C	392 - 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 Temperature	190 - 210 Â°C	374 - 410 Â°F	6

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

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