

Lubrizol Advanced Materials PEARLTHANE® 11T95P Thermoplastic Polyurethane Elastomer

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

Material Notes:

Type : Pearlthane® 11T95P is a polycaprolactone copolyester-based thermoplastic polyurethane. Main Application : Injection

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-11T95P-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ISO 868
Hardness, Shore D	49	49	ISO 868
Tensile Strength, Yield	40.00 MPa	5801 psi	ISO 527-2/5A/500
Elongation at Break	515 %	515 %	ISO 527-2/5A/500
50% Modulus	0.00900 GPa	1.31 ksi	ISO 527-2/5A/500
100% Modulus	0.0120 GPa	1.74 ksi	ISO 527-2/5A/500
300% Modulus	0.02499 GPa	3.625 ksi	ISO 527-2/5A/500
Tear Strength	154 kN/m	880 pli	ISO 34-1B
Abrasion	20	20	loss (mm ³); ISO 306

Thermal Properties	Metric	English	Comments
Vicat Softening Point	121 Â°C	250 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 Â°C	104 Â°F	
Nozzle Temperature	210 Â°C	410 Â°F	
Zone 1	195 Â°C	383 Â°F	
Zone 2	200 Â°C	392 Â°F	
Zone 3	210 Â°C	410 Â°F	

Zone 4 Processing Properties	210 Â°C Metric	410 Â°F English	Comments
Dry Time	3.00 hour @Temperature 100 Â°C	3.00 hour @Temperature 212 Â°F	

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