

Lubrizol Advanced Materials PEARLTHANE® 11T93 Thermoplastic Polyurethane Elastomer

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

Material Notes:

Type : Pearlthane® 11T93 is a polycaprolactone copolyester-based thermoplastic polyurethane. Main Application : Injection

Moulding Special Features : Combining hardness with excellent mechanical properties, including a low compression set value. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-11T93-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	93	93	ISO 868
Tensile Strength, Yield	40.00 MPa	5801 psi	ISO 527-2/5A/500
Elongation at Break	500 %	500 %	ISO 527-2/5A/500
50% Modulus	0.0700 GPa	10.2 ksi	ISO 527-2/5A/500
100% Modulus	0.008998 GPa	1.305 ksi	ISO 527-2/5A/500
300% Modulus	0.01700 GPa	2.465 ksi	ISO 527-2/5A/500
Tear Strength	120 kN/m	685 pli	ISO 34-1B
Abrasion	25	25	loss (mm ³); ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	102 °C	216 °F	ISO 306

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

Zone 4 Processing Properties	210 °C Metric	410 °F English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China