

Lubrizol Advanced Materials PEARLTHANE® 11T60D Thermoplastic Polyurethane Elastomer

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

Material Notes:

Type : Pearlthane® 11T60D is a polycaprolactone copolyester-based thermoplastic polyurethane. Main Application : Injection

Moulding Special Features : Combining very high 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-11T60D-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 2781
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ISO 868
Tensile Strength, Yield	40.00 MPa	5801 psi	ISO 527-2/5A/500
Elongation at Break	480 %	480 %	Ultimate; ISO 527-2/5A/500
50% Modulus	0.0150 GPa	2.18 ksi	ISO 527-2/5A/500
100% Modulus	0.01501 GPa	2.177 ksi	ISO 527-2/5A/500
300% Modulus	0.02801 GPa	4.063 ksi	ISO 527-2/5A/500
Tear Strength	170 kN/m	970 pli	ISO 34-1B
Abrasion	25	25	loss (mm ³); ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	137 °C	279 °F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 °C	104 °F	
Nozzle Temperature	220 °C	428 °F	
Zone 1	210 °C	410 °F	
Zone 2	215 °C	419 °F	
Zone 3	225 °C	437 °F	

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

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