

Lubrizol Advanced Materials PEARLTHANE® 91T85 Thermoplastic Polyurethane Elastomer

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

Material Notes:

Type : Pearlthane® 91T85 is a aliphatic-based thermoplastic polyurethane. Main Application : Injection Moulding
Special Features : Low density, fast processing and excellent elasticity properties. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-91T85-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	ISO 868
Tensile Strength, Yield	27.00 MPa	3916 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	0.00550 GPa	0.798 ksi	ISO 527-2/5A/500
300% Modulus	0.008998 GPa	1.305 ksi	ISO 527-2/5A/500
Tear Strength	91.0 kN/m	519 pli	ISO 34-1B
Abrasion	30	30	loss (mm ³); ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 Â°C	185 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 Â°C	104 Â°F	
Nozzle Temperature	185 Â°C	365 Â°F	
Zone 1	180 Â°C	356 Â°F	
Zone 2	185 Â°C	365 Â°F	
Zone 3	190 Â°C	374 Â°F	
Zone 4	190 Â°C	374 Â°F	

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

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