

## Lubrizol Advanced Materials Pearlthane® 11T85 Polycaprolactone Copolyester based TPU

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

### Material Notes:

Type : Pearlthane® 11T85 is a polycaprolactone copolyester-based thermoplastic polyurethane. Main Application : Injection

Moulding Special Features : Adequate hardness, excellent mechanical properties and easy processing.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Advanced-Materials-Pearlthane-11T85-Polycaprolactone-Copolyester-based-TPU.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-11T85-Polycaprolactone-Copolyester-based-TPU.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ISO 868
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ISO 527-2/5A/500
Elongation at Break	640 %	640 %	ISO 527-2/5A/500
50% Modulus	0.00500 GPa	0.725 ksi	ISO 527-2/5A/500
100% Modulus	0.00600 GPa	0.870 ksi	ISO 527-2/5A/500
300% Modulus	0.0100 GPa	1.45 ksi	ISO 527-2/5A/500
Tear Strength	90.0 kN/m	514 pli	ISO 34-1B
Abrasion	20	20	mm <sup>3</sup> ; ISO 4649-a

Thermal Properties	Metric	English	Comments
Vicat Softening Point	87.0 °C	189 °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	210 °C	410 °F	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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