

**Technical Data Sheet**

**Type:** Pearlthane® 11T93 is a polycaprolactone co-polyester-based thermoplastic polyurethane.

**Main application:** Injection Moulding

Physical Properties *	Value (Metric)	Unit	Test Method
Hardness	A/1: 93	Shore A/D	ISO 868
Specific Gravity	1.16	g/cm <sup>3</sup>	ISO 2781
Tensile Strength	40	MPa	ISO 527-2/5A/500
Ultimate Elongation	500	%	ISO 527-2/5A/500
Tensile Stress at:			
- 50 % Elongation	7	MPa	ISO 527-2/5A/500
- 100 % Elongation	9	MPa	ISO 527-2/5A/500
- 300 % Elongation	17	MPa	ISO 527-2/5A/500
Tear Strength unnicked	120	kN/m	ISO 34-1B
Abrasion Resistance	25	mm <sup>3</sup>	ISO 4649-A
Vicat Softening Point	102	°C	ISO 306 (A50)

See reverse side for processing information

\*Based on moulded plaques

Listed values are “typical (average) values” and should /cannot be applied for specification purposes

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## Material Preparation

Prior to processing, **Pearlthane® 11T93** be dried at **100°C** for 3-4 hours.  
It is recommended to dry the material in a dehumidifying type dryer.  
Target dew point should be **-40°C**.

## Recommended Starting INJECTION MOULDING Temperature Profile:

	°C
<b>Feed zone</b>	<b>40</b>
<b>Zone 1</b>	<b>195</b>
<b>Zone 2</b>	<b>200</b>
<b>Zone 3</b>	<b>210</b>
<b>Zone 4</b>	<b>210</b>
<b>Nozzle</b>	<b>210</b>

For further information refer to Lubrizol Advanced Materials processing guides.

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