

## Technical Data Sheet

**Type:** Pearlthane® MAXI 12T85E is a polyester-based thermoplastic polyurethane.

**Main Application:** Extrusion

**Special Features:** Medium hardness, good mechanical properties and outstanding abrasion resistance.

Physical Properties*	Value (Metric)	Unit	Test Method
Hardness	A/1 : 86	Shore A/D	ISO 868
Specific Gravity	1.21	g/cm <sup>3</sup>	ISO 2781
Tensile Strength	42	MPa	ISO 527-2/5A/500
Ultimate Elongation	580	%	ISO 527-2/5A/500
Tensile Stress at 50 % Elongation		MPa	ISO 527-2/5A/500
100 % Elongation	6	MPa	ISO 527-2/5A/500
300 % Elongation	10	MPa	ISO 527-2/5A/500
Tear Strength Unnicked		kN/m	ISO 34-1B
Abrasion Resistance	30	mm <sup>3</sup>	ISO 4649-A
Vicat Softening Point		°C	ISO 306 (A50)

\*Based on extruded strips.

Listed values are "typical (average) values" and should/can not be applied for specification purposes.

**See reverse side for processing information.**

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**Material Preparation**

Prior to processing, Pearlthane® MAXI 12T85E must be dried at 100°C during 2 hours. It is recommended to dry the material in a dehumidifying-type dryer. Target dew point to be below -30°C, preferably -40°C.

**Recommended Extrusion Temperature Profile:**

	°C
<b>Hopper Cooling</b>	<b>Yes</b>
<b>Zone 1</b>	<b>175-195</b>
<b>Zone 2</b>	<b>185-205</b>
<b>Zone 3</b>	<b>195-215</b>
<b>Zone 4</b>	<b>190-225</b>
<b>Adapter 5</b>	<b>185-195</b>
<b>Die (6)</b>	<b>185-195</b>
<b>Die TIP (7)</b>	<b>185-195</b>

**For further information refer to Lubrizol Advanced Materials processing guides.**

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