

## Technical Data Sheet

**Type:** Pearlthane® CLEAR 15N70 is a polyether copolymer-based thermoplastic polyurethane.

**Main Application:** Extrusion/Moulding

**Special Features:** Low hardness and high elasticity with excellent mechanical properties and excellent hydrolysis resistance.

Physical Properties*	Value (Metric)	Unit	Test Method
Hardness	A/1 : 72	Shore A/D	ISO 868
Specific Gravity	1.07	g/cm <sup>3</sup>	ISO 2781
Tensile Strength	30	MPa	ISO 527-2/5A/500
Ultimate Elongation	710	%	ISO 527-2/5A/500
Tensile Stress at 50 % Elongation		MPa	ISO 527-2/5A/500
100 % Elongation	3	MPa	ISO 527-2/5A/500
300 % Elongation	5	MPa	ISO 527-2/5A/500
Tear Strength Unnicked	65	kN/m	ISO 34-1B
Abrasion Resistance	25	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® CLEAR 15N70 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>170-190</b>
<b>Zone 2</b>	<b>180-205</b>
<b>Zone 3</b>	<b>190-215</b>
<b>Zone 4</b>	<b>180-190</b>
<b>Adapter 5</b>	<b>185-190</b>
<b>Die (6)</b>	<b>185-190</b>
<b>Die TIP (7)</b>	<b>185-190</b>

For further information refer to Lubrizol Advanced Materials processing guides.

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