

Technical Data Sheet

Type: PEARLTHANE™ CLEAR 15N85 is a polyether copolymer-based thermoplastic polyurethane.

Main Application: Injection Moulding

Special Features: Outstanding colour, a very low yellowness index as well as unique transparency.

Physical Properties *	Value (Metric)	Unit	Test Method
Hardness	A/1: 86	Shore A/D	ISO 868
Specific Gravity	1.11	g/cm ³	ISO 2781
Tensile Strength	35	MPa	ISO 527-2/5A/200
Ultimate Elongation	600	%	ISO 527-2/5A/200
Tensile Stress at:			
- 50 % Elongation	5	MPa	ISO 527-2/5A/200
- 100 % Elongation	6	MPa	ISO 527-2/5A/200
- 300 % Elongation	10	MPa	ISO 527-2/5A/200
Tear Strength nicked	95	kN/m	ISO 34-1B
Abrasion Resistance	20	mm ³	ISO 4649-A
Vicat Softening Point	84	°C	ISO 306 (A50)

See reverse side for processing information

* Based on moulded plaques

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

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Material Preparation

Prior to processing, **PEARLTHANE™ CLEAR 15N85** must 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
Feed zone	40
Zone 1	200
Zone 2	230
Zone 3	230
Zone 4	220
Nozzle	220

For further information refer to Lubrizol Advanced Materials processing guides.

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