

**Technical Data Sheet**

**Type:** Pearlcoat™ 165K is an aromatic polyether-based thermoplastic polyurethane.

**Main application:** Meltcoating

**Uses:**

Physical Properties	Value (Metric)	Unit	Test Method
Hardness	A/1: 91	Shore A/D	ISO 868
Specific Gravity	1.12	g/cm <sup>3</sup>	ISO 2781
Tensile Strength	30	MPa	ISO 527-2/5A/500
Ultimate Elongation	450	%	ISO 527-2/5A/500
Tensile Stress at:			
- 50 % Elongation	6	MPa	ISO 527-2/5A/500
- 100 % Elongation	7	MPa	ISO 527-2/5A/500
- 300 % Elongation	12	MPa	ISO 527-2/5A/500
Tear Strength nicked	85	kN/m	ISO 34-1B
Abrasion Resistance	25	mm <sup>3</sup>	ISO 4649-A
Vicat Softening Point	-	°C	ISO 306 (A50)

See reverse side for processing information

\* Based on extruded strips

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

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## Material Preparation

Prior to processing, **Pearlcoat™ 165K** be dried at **90°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 MELTCOATING Temperature Profile:

	°C
<b>Roll 1</b>	<b>160</b>
<b>Roll 2</b>	<b>170</b>
<b>Rubber Roll 3</b>	<b>Not heated</b>

For further information refer to Lubrizol Advanced Materials processing guides.

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