

**Technical Data Sheet**

**Type:** Polycaprolactone copolyester-based Aliphatic Thermoplastic Polyurethane with 82 Shore A Hardness.

**Features:** Translucent resin with excellent color stability upon UV exposure.

**Uses:** Hotmelt adhesives

**SPECIFICATION**

**Melt Flow Index** (190° C / 2.16 Kg) **15 - 35** g/10 min ISO 1133

Physical Properties	Value (Metric)	Unit	Test Method
Hardness (5 sec)	A/3: 82	Shore A	ISO 868 / ASTM D-2240
Specific Gravity	1.11	g/cm <sup>3</sup>	ISO 2781 / ASTM D-792
Tensile Strength	38.4 (5569)	MPa (psi)	ISO 527
Ultimate Elongation	723	%	ISO 527
Tensile Stress at:			
- 100 % Elongation	5.4 (783)	MPa (psi)	ISO 527
- 300 % Elongation	10.5 (1523)	MPa (psi)	ISO 527
Tear Strength	80 (457)	kN/m (lb/in)	ISO 34-1B (ASTM D-624 Die C)
Melting range	125 - 155	° C (F)	LZMM-RD01-70
Activation temperature	120 - 130	° C (F)	ASTM E 2347
Vicat Softening point A50	60 (140)	° C (F)	ISO 306

• Prior to testing samples were conditioned at 23° C for 24 hours.

**APPLICATIONS**

**PEARLBOND™ 920** is suitable for use in blown extrusion, slot-die extrusion, roll coating and powder applications where the following features are of high value to the customer:

- Fast crystallization rate
- Low activation temperature
- Excellent bonding strength
- High resistance to UV

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### Material Preparation

- Prior to processing, **PEARLBOND™ 920** must be dried at **70° C** for 3 hours.
- It is recommended to dry the material in a desiccant type dryer. Target dew point should be **-40°C**.
- Depending on the applied processing technique, the maximum moisture level should be 0.02%.

### Processing Conditions

**PEARLBOND™ 920** can be processed on any conventional extruder.

### Recommended Starting INSERT INJECTION MOLDING/EXTRUSION Temperature Profile:

	°F/°C
<b>Zone 1</b>	<b>356/180</b>
<b>Zone 2</b>	<b>365/185</b>
<b>Zone 3</b>	<b>365/185</b>
<b>Zone 4</b>	<b>356/180</b>
<b>Die Zone</b>	<b>338/170</b>

For further information refer to Lubrizol Advanced Materials processing guides.

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