

Technical Data Sheet

Pearlbond® 220 is a linear, polycaprolactone-based polyurethane, supplied in form of small white granules, which combines an extremely high crystallization rate with a very high thermoplasticity level. It is used for Hot Melt adhesives.

SPECIFICATION

Melt Flow Index (170°C / 2.16 Kg) **15 - 30** g/10 min *ISO 1133*

CHARACTERISTICS

Property	Typical values *	Test Method
Density @ 20°C	1.19 g/cm ³	ISO 2781
Shore Hardness	54D	ISO 868
Melt Viscosity (160°C/ 2.16 Kg)	650 Pa.s	ISO 1133
Softening range	55 – 60° C	MQSA 70A
Melting range	64 – 68° C	MQSA 70A
Crystallization rate	Very High	MQSA 12A
Thermoplasticity	Very High	MQSA 68A

* *These are typical values & should not be used for establishing specifications.*

APPLICATIONS

PEARLBOND™ 220 is suitable for use in extrusion and powder applications where the following features are of high value to the customer:

- Gel free quality
- High thermoplasticity
- Fast crystallization rate

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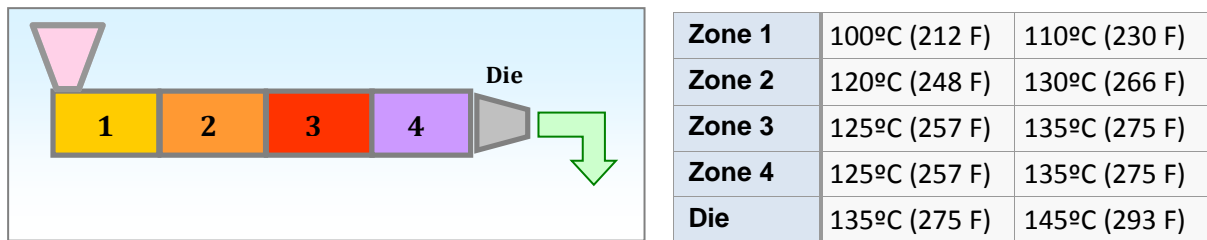
<http://go.lubrizol.com/EP>

PEARLBOND™ 220 could be used for low temperature **thermo-molding** applications as orthopaedic, DIY markets, for instance.

Pearlbond® 220 could be also used for making heat-sealable fabrics (**thermo-bonding**), obtained by coating processes such as films, webs, nets, scattering and dot-coating (powder or paste).

WORKING INSTRUCTIONS

The suggested processing-temperature profiles for film extrusion (flat films) are depicted in the figure below:



Type.- 30/25d (l/d=25:1), **Cooling.-** air, **Screw.-** 3:1, **Speed.-** 40-50 rpm **Breaker plate.-**, **-Thickness die.-** 0,2 mm

HEALTH AND SAFETY

A safety data sheet on **Pearlbond® 220** is available, with all information related to safety. The usual safety practices in the handling of chemicals should be observed, i.e.: good ventilation in the working area, gloves and protective goggles.

PACKAGING

Multifoil paper bags of 25 Kg. or PE bags of 25 kg and Carton box.
Bags are shipped on pallets of 750 kg.

STORAGE

Pearlbond® 220 STORAGE must be stored in a cool (15–25°C) and environment prior to being processed. Standard practice of consuming resin on first-in first-out basis should be employed.

For further information refer to Lubrizol Advanced Materials processing guides.

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