

## Technical Data Sheet

**Pearlbond® 120** 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 <sup>3</sup>	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® 120** is mainly used for textile coating for making shoe-stiffeners (**toe puffs & counters**), by extrusion or sintering process.

**Pearlbond® 120** can be used for making heat-sealable fabrics (**thermobonding**), obtained by coating processes such as scattering or dot-coating (powder or paste). In all cases, the product is previously ground into powder, by cryogenic grinding. The particle size of the powder will depend on the application technique to be used.

### HEALTH AND SAFETY

A safety data sheet on **Pearlbond® 120** 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.

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information often is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance or reproducibility. Formulations presented may not have been tested for stability and should be used only as a suggested starting point. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability for any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation nor as an inducement to practice any patented invention without permission of the patent owner.

© 2018 The Lubrizol Corporation.

All rights reserved. All marks are the property of The Lubrizol Corporation.



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

**STORAGE**

**Pearlbond® 120** 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.**

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information often is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance or reproducibility. Formulations presented may not have been tested for stability and should be used only as a suggested starting point. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability for any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation nor as an inducement to practice any patented invention without permission of the patent owner.

© 2018 The Lubrizol Corporation.  
All rights reserved. All marks are the property of The Lubrizol Corporation.



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