

**Technical Data Sheet**

**Pearlbond™ 103** is a linear, polycaprolactone-based polyurethane, supplied in form of small white granules, which combines a very high crystallization rate with a very high thermoplasticity level. It is used for Hot Melt adhesives.

**SPECIFICATION**


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<b>Melt Flow Index</b> (170°C/2.16 Kg)	<b>60–100</b> g/10 min	ISO 1133
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**CHARACTERISTICS**

Property	Typical Values*	Test Method
Density @ 20°C	1.19 g/cm <sup>3</sup>	ISO 2781
Shore Hardness	51D	ISO 868
Melt Viscosity (160°C/2.16 Kg)	190 Pa.s	ISO 1133
Softening range	55–60°C	MQSA 70A
Melting range	60–64°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™ 103** is mainly 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.

**Pearlbond™ 103** is used for textile coating for making shoe-stiffeners (**toe puffs & counters**), by extrusion or sintering process.

**HEALTH AND SAFETY**

A safety data sheet on **Pearlbond™ 103** 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.

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**STORAGE**

**Pearlbond™ 103** 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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