

# Pearlbond™ 121

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

## Message:

Pearlbond® 121 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.

Pearlbond® 121 is mainly used for textile coating for making shoe-stiffeners (toe puffs & counters), by extrusion or sintering process.

Pearlbond® 121 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.

General Information	
Features	Crystalline
	Good Adhesion
	Heat Sealable
Uses	Adhesives
	Coating Applications
	Fabrics
	Footwear
	Textile Applications
Agency Ratings	EC 1907/2006 (REACH)
Appearance	White
Forms	Granules
Processing Method	Coating
	Scatter Coating

Physical	Nominal Value	Unit	Test Method
Density (20°C)	1.19	g/cm <sup>3</sup>	ISO 2781
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	30 to 60	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	54		ISO 868
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	63.0 to 67.0	°C	Internal Method
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity <sup>1</sup> (160°C)	380	Pa · s	ISO 1133
Additional Information	Nominal Value	Unit	Test Method
Crystallization Rate	Extremely High		Internal Method
Softening Range	55 to 60	°C	Internal Method
Thermoplasticity	Very High		Internal Method

## NOTE

1. 2.16 Kg

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### Recommended distributors for this material

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