

Pearlbond™ 122

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Pearlbond® 122 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® 122 is mainly used for textile coating for making shoe-stiffeners (toe puffs & counters), by extrusion or sintering process.

Pearlbond® 122 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		
	Heat Sealable		
Uses	Adhesives		
	Coating Applications		
	Fabrics		
	Footwear		
	Textile Applications		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	White		
Forms	Granules		
Processing Method	Coating		
	Extrusion		
	Scatter Coating		
	Sintering		
Physical	Nominal Value	Unit	Test Method
Density (20°C)	1.19	g/cm ³	ISO 2781
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	110 to 160	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	65.0 to 69.0	°C	Internal Method
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity ¹ (160°C)	2200	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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