

# Pearlbond™ 120

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

## Message:

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.

### 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.

General Information			
Features	Heat sealable		
	Linear polymer structure		
Uses	Textile applications		
	Coating application		
	Footwear		
	Bonding		
	Adhesive		
	Fabric		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	White		
Forms	Particles		
Processing Method	Scatter Coating		
	Extrusion		
	Sintering		
	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)	15 - 30	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	54		ISO 868
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	64.0 - 68.0	°C	Internal method
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity <sup>1</sup> (160°C)	650	Pa · s	ISO 1133
Additional Information	Nominal Value	Unit	Test Method

Crystallization Rate	Very High		Internal method
Softening Range	55 - 60	°C	Internal method
Thermoplasticity	Very High		Internal method

NOTE

1.	2.16 kg
----	---------

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material


## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT