

Lubrizol Advanced Materials PEARLBOND® 121 Linear Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

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. Application: 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLBOND-121-Linear-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 2781
Viscosity	380000 cP @Temperature 160 Â°C	380000 cP @Temperature 320 Â°F	Melt viscosity @ 2.16 kg; ISO 1133
Melt Flow	30 - 60 g/10 min @Load 2.16 kg, Temperature 170 Â°C	30 - 60 g/10 min @Load 4.76 lb, Temperature 338 Â°F	PMES11

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ISO 868

Thermal Properties	Metric	English	Comments
Melting Point	63.0 - 67.0 Â°C	145 - 153 Â°F	MQSA 70 A
Softening Point	55.0 - 60.0 Â°C	131 - 140 Â°F	MQSA 70 A

Descriptive Properties	Value	Comments
Crystallization rate (minutes)	Very high	MQSA 12 B
Thermoplasticity	Very high	MQSA 68 A

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