

Lubrizol Advanced Materials PEARLBONDÂ® 102 Linear Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

PEARLBONDÂ® 102 is a linear, polycaprolactone-based polyurethane, supplied in form of small white pellets, which combines a very high crystallization rate with a very high thermoplasticity level. Applications: PEARLBONDÂ® 102 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. PearlbondÂ® 103 is used for textile coating for making shoe-stiffeners (toe puffs & counters), by extrusion or sintering process.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLBOND-102-Linear-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/inÂ³	DIN 53.479
Viscosity	2.38e+6 cP @Temperature 160 Â°C	2.38e+6 cP @Temperature 320 Â°F	Melt viscosity @ 2.16 kg; DIN 53.735
Melt Flow	90 - 145 g/10 min @Load 2.16 kg, Temperature 170 Â°C	90 - 145 g/10 min @Load 4.76 lb, Temperature 338 Â°F	DIN 53.735

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51	51	DIN 53.505

Thermal Properties	Metric	English	Comments
Melting Point	68.0 - 72.0 Â°C	154 - 162 Â°F	MQSA 70 A
Softening Point	63.0 - 67.0 Â°C	145 - 153 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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