

Lubrizol Advanced Materials PEARLBOND® 104 Linear Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbond®, 104 is a linear, aromatic polyurethane, supplied in form of small white or slightly yellowish granules, which combines a high crystallisation rate with a high thermoplasticity level. It is used for Hot melt adhesives. Application: Pearlbond®, 104 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLBOND-104-Linear-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 2781
Viscosity	2.95e+6 cP @Temperature 160 °C	2.95e+6 cP @Temperature 320 °F	Melt viscosity @ 2.16 kg; ISO 1133
Melt Flow	4.0 - 10 g/10 min @Load 2.16 kg, Temperature 170 °C	4.0 - 10 g/10 min @Load 4.76 lb, Temperature 338 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93	93	ISO 868

Thermal Properties	Metric	English	Comments
Melting Point	70.0 - 80.0 °C	158 - 176 °F	MQSA 70 A
Softening Point	65.0 - 70.0 °C	149 - 158 °F	MQSA 70 A

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

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