

Lubrizol Advanced Materials Pearlbond® 180 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbond® 180 is a linear, polyester-based polyurethane, supplied in form of small white granules, which combines a very high crystallization rate with a very high thermoplasticity level. It is used for Hot Melt adhesives. Application: Pearlbond® 180 is mainly used for textile coating for making shoe-stiffeners (toe puffs & counters), by extrusion or sintering process. Pearlbond® 180 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-180-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	<= 1.19 g/cc	<= 0.0430 lb/in ³	ISO 2781
Viscosity	620000 cP @Temperature 160 °C	620000 cP @Temperature 320 °F	Melt viscosity @ 2.16 kg; ISO 1133
Melt Flow	10 - 30 g/10 min @Load 2.16 kg, Temperature 170 °C	10 - 30 g/10 min @Load 4.76 lb, Temperature 338 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ISO 868

Thermal Properties	Metric	English	Comments
Melting Point	65.0 - 71.0 °C	149 - 160 °F	Kofler; MQSA 70 A
Softening Point	55.0 - 60.0 °C	131 - 140 °F	MQSA 70 A

Descriptive Properties	Value	Comments
Crystallization Rate	Very High	MQSA 12 B
Thermoplasticity Range	Very High	MQSA 68 A

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