

Lubrizol Advanced Materials Pearlbond® Eco D900 Thermoplastic Polyurethane

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbond® ECO D900 is a linear, aromatic polyurethane based on specialty polyol from renewable sources. It contains 67% of renewable material as certified according to ASTM-D6866. It is supplied in form of small white or lightly yellowish granules, which combines a very extremely high crystallization rate with a very high thermoplasticity level. It is used for Hot Melt adhesives. Application: Pearlbond® ECO D900 is mainly 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-Eco-D900-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ISO 2781
Viscosity	9.30e+6 cP @Load 2.16 kg, Temperature 160 Â°C	9.30e+6 cP @Load 4.76 lb, Temperature 320 Â°F	Melt; 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	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	ISO 868

Thermal Properties	Metric	English	Comments
Melting Point	80.0 - 85.0 Â°C	176 - 185 Â°F	MQSA 70 A
Softening Point	70.0 - 80.0 Â°C	158 - 176 Â°F	MQSA 70A

Processing Properties	Metric	English	Comments
Zone 1	90.0 Â°C	194 Â°F	Feed
Zone 2	100 - 120 Â°C	212 - 248 Â°F	Compression
Zone 3	100 - 120 Â°C	212 - 248 Â°F	Metering
Zone 4	100 - 120 Â°C	212 - 248 Â°F	Metering
Die Temperature	100 - 120 Â°C	212 - 248 Â°F	

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

Contact Songhan Plastic Technology Co.,Ltd.

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