

Pearlbond™ ECO D900

Thermoplastic Polyurethane Elastomer

Lubrizol Advanced Materials, Inc.

Message:

Type: Pearlbond™ ECO D900 is a linear, aromatic polyurethane, supplied in form of small white or lightly yellowish granules. Based on specialty polyol from renewable sources. Contains 75% of renewable materials as certified according to ASTM-D6866.

Special features : High crystallization rate and a very high thermoplasticity level. It is used for Hot Melt adhesives.

APPLICATIONS

Pearlbond™ ECO D900 is mainly used for textile coating for making shoe-stiffeners (toe puffs & counters), by extrusion or sintering process.

Pearlbond™ ECO D900 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.

General Information			
Features	Crystalline		
	Renewable Resource Content		
Uses	Adhesives		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	White		
	Yellow		
Forms	Granules		
Processing Method	Extrusion		
	Sintering		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	30 to 60	g/10 min	ISO 1133
Crystallinity	Extremely high		Internal Method
Renewable Content	75	%	ASTM D6866
Softening Range	70 to 75	°C	Internal Method
Thermoplasticity	Very high		Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 1 sec)	52		ISO 868
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	80.0 to 84.0	°C	Internal Method
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity ¹ (160°C)	930	Pa · s	ISO 1133
Extrusion	Nominal Value	Unit	
Drying Temperature	40.0 to 50.0	°C	
Drying Time	3.0 to 6.0	hr	
Cylinder Zone 1 Temp.	90.0	°C	

Cylinder Zone 2 Temp.	100 to 120	°C
Cylinder Zone 3 Temp.	100 to 120	°C
Cylinder Zone 4 Temp.	100 to 120	°C
Die Temperature	100 to 120	°C

NOTE

1.	2.16 Kg
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