

Pearlbond™ 125H

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Pearlbond® 125/H is polyester-based thermoplastic polyurethane, supplied in form of colourless, translucent granules, combining hardness with excellent low-temperature flexibility and a low softening point.

Pearlbond® 125/H 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	Heat Sealable
	Low Temperature Flexibility
	Medium Hardness
Uses	Coating Applications
	Fabrics
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.2600
Appearance	Colorless
	Translucent
Forms	Granules
Processing Method	Coating
	Scatter Coating

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.19	g/cm ³	ASTM D792
20°C	1.19	g/cm ³	ISO 2781
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	35 to 55	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
--	18.0	MPa	
100% Strain	4.00	MPa	
300% Strain	7.00	MPa	
Tensile Strain (Break)	520	%	ISO 527-2

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	4.00	MPa	
300% Strain	7.00	MPa	
Tensile Strength	18.0	MPa	ASTM D412
Tensile Elongation (Break)	520	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	130 to 140	°C	Internal Method
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity ¹ (160°C)	890	Pa·s	ISO 1133
Additional Information	Nominal Value	Unit	Test Method
Softening Range	110 to 130		Internal Method
NOTE			
1.	2.16 Kg		

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