

Pearlbond™ 12C75

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Pearlbond® 12C75 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® 12C75 is mainly used for making heat-sealable fabrics (thermobonding), obtained by coating processes such:

-Hot Melt Coating system: Rotogravure hot melt printing. The product is melted in an extruder and then pumped into a deposit in front of the engraved roller.

-Powder Coating system: Scattering or dot-coating (powder or paste). 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	Bonding		
	Coating Applications		
	Fabrics		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Colorless		
	Translucent		
Forms	Granules		
Processing Method	Coating		
	Hot Melt		
	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) (177°C/2.16 kg)	15 to 40	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	78		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
--	24.0	MPa	
100% Strain	4.00	MPa	

300% Strain	5.00	MPa	
Tensile Strain (Break)	650	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	4.00	MPa	
300% Strain	5.00	MPa	
Tensile Strength	24.0	MPa	ASTM D412
Tensile Elongation (Break)	650	%	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)	1050	Pa·s	ISO 1133
Additional Information	Nominal Value	Unit	Test Method
Softening Range	110 to 130	°C	Internal Method
NOTE			
1.	2.16 Kg		

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