

# Pearlbond® 521

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

## Message:

Pearlbond® 521 is a linear, polycaprolactone-copolyester polyurethane, supplied in form of white spherical granules with a very high crystallization rate and a very high thermoplasticity level.  
Pearlbond® 521 can be added to formulations of REACTIVE POLYURETHANE HOT-MELTS (HMPUR), in order to improve the crystallisation speed.

General Information			
Features	Crystalline		
	Solvent Resistant		
Uses	Plastics Modification		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	White		
Forms	Granules		
Physical	Nominal Value	Unit	Test Method
Density (20°C)	1.19	g/cm³	ISO 2781
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	30 to 60	g/10 min	ISO 1133
Moisture Content	< 1500	ppm	Internal Method
Crystallization Rate	9.0 to 11.0	min	Internal Method
OH Value	< 3.00	mg KOH/g	Internal Method
Thermoplasticity	Very High		Internal Method
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	63.0 to 67.0	°C	Internal Method
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (130°C)	760	Pa·s	ISO 1133

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