

## **Technical Data Sheet**

**Type: PEARLBOND<sup>™</sup> ECO 590** is a linear, aromatic bio-polyurethane based on **specialty polyol from renewable sources**, supplied in form of white spherical granules, with an extremely high crystallization rate and a very high thermoplasticity level. It contains 67% of renewable material as certified according to ASTM-D6866.

Uses: Powder, pellet

**Melt Flow Index** (170° C / 2.16 Kg)

**30–60** g/10 min

ISO 1133

Physical Properties	Value (Metric)	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ISO 2781 (ASTM D-792)
Softening range	65-75	° C	LZMM-RD01-70
Melting range	70-80	° C	LZMM-RD01-70
Activation temperature	65-70	° C	LZMM-RD01-70
Thermoplasticity	Very high		LZMM-RD01-68A
OH Value	< 3	mg KOH/g.	LZMM-RD01-47A
Moisture Content	< 0.15	%	LZMM-RD01-44
Crystallization Range	6-10	Min.	LZMM-RD01-12A
Melt Viscosity @ 130°C	600-2,000	Pa.s	ISO 1133

\*These are typical values & should not be used for establishing specifications.

## APPLICATIONS

**PEARLBOND™ ECO 590** can be added to formulations of REACTIVE POLYURETHANE HOT-MELTS (*HMPUR*), in order to improve the crystallization speed.

## STORAGE

**PEARLBOND™ ECO 590** must be stored in a cool (15–25°C) and environment prior to being processed.

Standard practice of consuming resin on first-in first-out basis should be employed.

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