

**Technical Data Sheet**

**Pearlbond™ 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.

**PRODUCT SPECIFICATION**


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**Melt Flow Index (170°C/2.16 Kg)**
**30–60 g/10 min**
**ISO 1133**


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**PRODUCT CHARACTERISTICS**

Property	Typical Values*	Test Method
Density @ 20°C	1.19 g/cm <sup>3</sup>	ISO 2781
OH Value	< 3 mg KOH/g.	MQSA 47A
Moisture Content	< 0.15%	MQSA 44
Crystallization Range	4–6 min.	MQSA 12A
Melt Viscosity @ 130°C	1,680 Pa.s	ISO 1133
Melting Point	82 ± 2°C	MQSA 70A
Thermoplasticity	Very High	MQSA 68A

\*These typical values provide general information, not for use as product specification.

**APPLICATIONS**

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

**HEALTH AND SAFETY**

A safety data sheet on **Pearlbond™ ECO 590** is available, with all safety information. The usual safety practices in the handling of chemicals should be observed, i.e.: good ventilation in the working area, gloves and protective goggles.

**PACKAGING**

Multifoil paper bags and PE bags containing 25 kg.  
Pallet of 750 kg of weight

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**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.

**For further information refer to Lubrizol Advanced Materials processing guides.**

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