

SOLUTION DATA SHEET

Pearlbond™ ECO Adds Strength to your PU Reactive Hot Melts



Markets	PU Reactive Hot Melts (HMPUR or RHM) for automotive, furniture and textile applications.
Polymer	Pearlbond ECO thermoplastic polyurethane (TPU)
Key Benefits	<ul style="list-style-type: none"> • Increase HMPUR green* strength • Accelerate HMPUR setting and open times • Increase HMPUR melting viscosity • Optimize HMPUR formulation costs

Polyurethanes (PU) Reactive Hot Melts are recognized as one of the preferred Solvent-Free adhesive solutions, challenging PU water-based dispersions in a wide range of applications, where adhesion performance on complex geometries is a key driver.

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The **Pearlbond™** TPU additives family has become a standard in PU RHM formulations over the past decade, offering very good HMPUR performance and cost ratio.

Today, **Pearlbond ECO 590** with 67% bio content determined as certified according to by ASTM D-6866, allows HMPUR formulators to meet global market needs for adhesives made of materials from bio-based sources, while ensuring top adhesion performance.

Pearlbond ECO 590 significantly reduces setting times vs. petroleum-based solutions as can be seen in the graphic below:

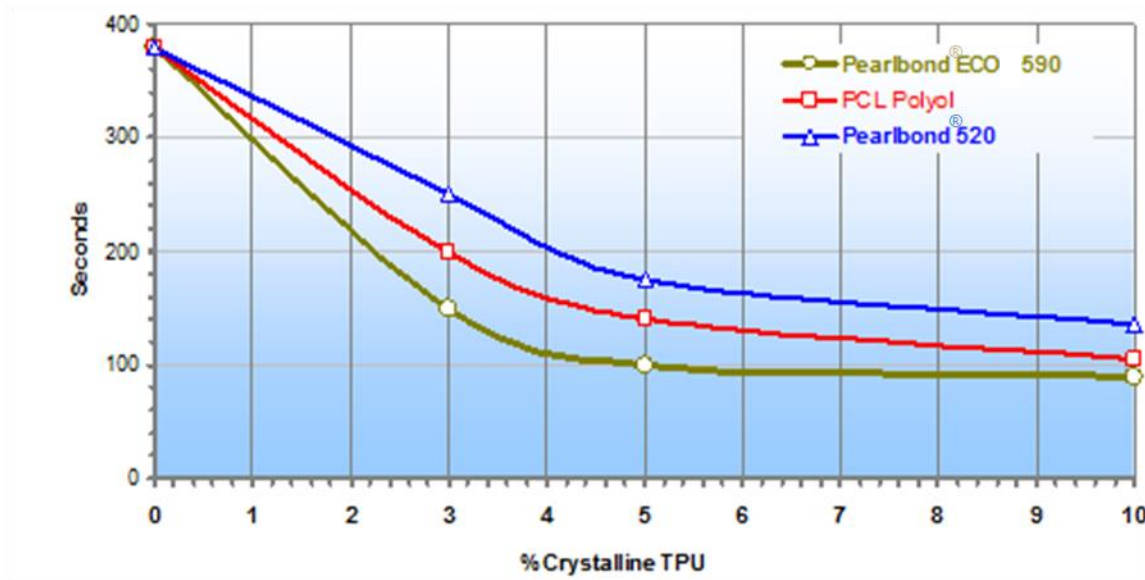


Figure 1: Setting time of Pearlbond ECO 590

Typical applications per industry, include:

- **Automotive:** Bonding of components
- **Furniture:** Edge bonding
- **Construction:** Wrapping profiles (Aluminium and PVC profiles)
- **Textile:** Technical Textiles



For more information, please visit our web site: www.lubrizol.com/Engineered-Polymers

**The mechanical strength which a compacted powder must have in order to withstand mechanical operations to which it is subjected after pressing and before sintering, without damaging its fine details and sharp edges.*

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