

SOLUTION DATA SHEET

Solvent-free PEARLBOND TPU for Adhesives Films and Powders



Markets	Adhesive films, webs and powders, and adhesive for hoses
Polymer	PEARLBOND thermoplastic polyurethane (TPU)
Key Benefits	<ul style="list-style-type: none"> • Toluene-free (no solvents) • Gel-free and excellent processability • Very good adhesion to various substrates and to PVC • Low activation temperature and very good wettability

Lubrizol engineered polymers has a world-class portfolio of TPU for adhesives. These solutions are available under specific brand names: Pearlbond for use in hot melt adhesives (HMAs) and HMPUR (or RHM – Reactive Hot Melts) on the one hand, and Pearlstick™ for solvent-based adhesives on the other.

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Lubrizol expanded its polymer specialty ranges for conventional adhesives by adding **Pearlbond 1160L** for powders, thermo bonding films and webs. This differentiated grade combines high melt strength and green strength in HMAs. And it does not contain any residual solvents.

Once **Pearlbond 1160L** is activated, it can be processed over a wide temperature range and shows excellent adhesion to a variety of materials. Thanks to its initial high bonding strength, it results in a short cycle time, a feature that is highly valued by customers.

Pearlbond™ 1160L	
Toluene-free	Yes
High melt cohesion	Yes
Gel-free quality & easy processing	Yes
Viscosity range	Low
Crystallization rate	Very fast
Applications	Adhesive powders, webs and thermo bonding films

Table 1: Key properties

Lubrizol’s broad engineered polymers portfolio represents multiple product groups, both polycaprolactone copolyester and polyester-based, working together to form a single, reliable source for polymer solutions for adhesives in applications such as textiles and hoses. Other possible applications are: Apparel (seam tapes and heat transfer labels), computer covers, adhesive webs, auto interior trim, intimates, footwear, furniture, edge banding and filtration.

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

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