

SOLUTION DATA SHEET

# PEARLBOND TPU for Adhesives Films and Powders



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

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

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Lubrizol expanded its specialty range of unique grades: **Pearlbond 1160** for adhesive films with high melt strength, and **Pearlbond 1160L** for powders, thermo bonding films and webs. The latter combines high melt strength and green strength in hot melt adhesives (HMAs).

These new products do not contain any residual solvents.

Once **Pearlbond 1160 and 1160L** are activated, they can be processed over a wide temperature range and show excellent adhesion to a variety of materials. Thanks to the initial, high bonding strength, both grades are highly-valued by customers seeking short cycle times.

Solvent-free Solutions for Adhesives Films and Powders		
	Pearlbond™ 1160L	Pearlbond™ 1160
<b>Toluene-free</b>	Yes	Yes
<b>High melt cohesion</b>	Yes	Yes
<b>Gel-free quality &amp; easy processing</b>	Yes	Yes
<b>Viscosity range</b>	Low	High
<b>Crystallization rate</b>	Very fast	Fast
<b>Applications</b>	Adhesive powders, webs and thermo bonding films	Adhesive for hoses, webs and coextruded films

**Table 1:** Comparison of key properties of Pearlbond grades for films, webs and powders

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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