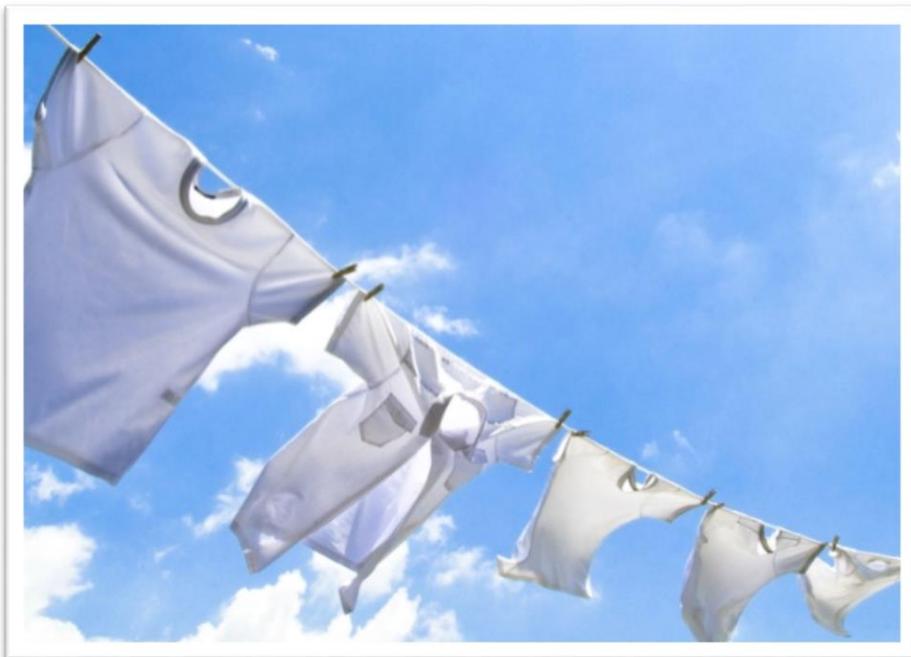


SOLUTION DATA SHEET

UV Resistant & Breathable Pearlbond™ 960 TPU For Hot Melt Adhesives



Markets	Technical Textiles, apparel (seam tapes, interlinings, and heat-transfer labels), footwear and non-food conveyor belts
Polymer	Pearlbond thermoplastic polyurethane (TPU)
Key Benefits	<ul style="list-style-type: none"> • U.V. resistance and breathability • Soft and plasticizer-free TPU • Resistant to fungi and microorganisms • Very high hydrolysis resistance • High recovery

Over the years, Lubrizol has developed a broad range of high-performing thermoplastic polyurethanes for use in the fast moving and demanding hot melt adhesive (HMA) segment. The Pearlbond TPU series has been formulated to provide optimum technical solutions to the most delicate and stringent thermobonding needs. Pearlbond TPUs are known for their very high bonding strength, durability and easy processing.

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

Pearlbond™ 960 TPU is the latest addition to the soft, thermobonding polymer portfolio. It brings a unique combination of features in terms of softness (69 shore A), very high bonding strength to various substrates and durability. It is UV-stable and resistant to fungi and microorganisms thanks to its combined aliphatic and polyether backbone; this inherently results in improved mechanical properties. Its broad activation temperature range makes it the ideal solution from bonding delicate fabrics –such as leather, cotton and elastic fibers–, to higher heat-resistant materials, e.g. polyester, polyamide or metal. An example of the benefits follows below:

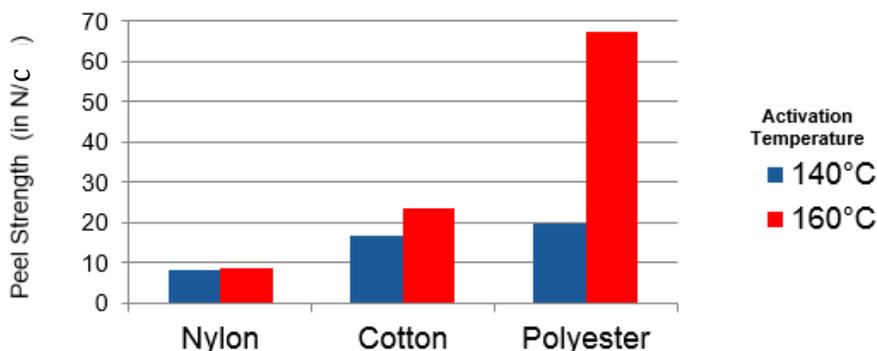


Figure 1: Activation of Pearlbond™ 960 TPU

Tests according to standard method DIN 53504. Test Conditions: Pressure 2 bar, time in press: 30 seconds, fabric specimens size 50mm x 100 mm; Peel strength measured after 72 hours in stock (22°C/65% RH).

The Pearlbond polymer series has been expanding the solutions available for HMAs for some years given the development of several new products and technologies. These innovations include added values to customers such as soft, plasticizer-free and fast-setting resistant materials. Pearlbond 960 TPU brings the added value of breathability with colour stability and can be applied in a multitude of highly demanding end-uses such as apparel, automotive, aerospace, electronics, filtration, outdoor applications, among others.



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