



Performance Tapes Technical Application Solution



General Industrial Portfolio: Foil Products

Industry Segment	White Goods
Application	<p>More and more, the white goods industry has leaned towards the use of lighter and more efficient materials to manufacture products. One area where this is evident is the use of aluminum foils as heat shields, protecting components from high internal temperatures. For example, in refrigerators aluminum foil is commonly found in control boxes, around defrost heaters, light bulbs and LEDs, and electrical harness connections. If we take a deeper look at the components provided by tier one suppliers, aluminum foil is used in applications that protect air ducts components made of polystyrene; plus you will also find aluminum foil die cuts that serve as patches for the back of the refrigerator (these are commonly applied on the pre-foaming process after having routed all the harnesses, especially in the compressor and condenser areas).</p> <p>There are many types of substrates and critical-to-quality elements involved in the construction of white goods. For this reason, Avery Dennison offers an array of adhesives such as General Purpose Rubber (excellent for low surface energy substrates and when high tack is needed), General Purpose Acrylic (suited for high temperature and solvent resistance), and High Performance Acrylics (used when higher temperature resistance and holding power are required). All of our aluminum foil tapes feature a liner construction for die cutting purposes.</p>
Material Laminated To	Not Applicable
Material Bonded To	A variety of painted metals and plastics
The Technical Challenges	<p>The pressure-sensitive adhesive product must:</p> <ul style="list-style-type: none"> - Bond to medium surface energy substrates - Be tolerant to hot and cold temperatures - Act as a heat shield - Feature a permanent adhesive - Convert easily - Exhibit excellent die cutting characteristics - Meet FMVSS specification
Products	FL 1002, FL 1008, FL 1000 and FL 1007
Commercial or Developmental?	Commercial
Why We Won	<p>When you work with Avery Dennison solutions are never far away. That is because we have teams working at the global, regional and local levels—and you can leverage the expertise of all of them. You will work closely with dedicated technical resources backed by experts in the field, as well as the technical and R&D teams in our laboratories. All of our technical personnel have many years of experience in materials science, engineering and labeling, and draw from an 80-year tradition of innovation and service.</p>

Please refer to [Tapes.AveryDennison.com](https://www.averydennison.com) for complete terms and conditions, including warranty terms, relating to this product. You should periodically review the site as terms and conditions are subject to change without notice.

© 2019 Avery Dennison Corporation. All rights reserved. Avery Dennison® is a registered trademark of Avery Dennison Corporation. HPA™ and AFB™ are trademarks of Avery Dennison Corporation. All other Avery Dennison brands, product names, antenna designs and codes or service programs are trademarks of Avery Dennison Corporation.



Performance
Tapes

Asia Pacific
Kunshan, China,
NO. 618 Nanhe Road
Kunshan Economic & Technological Zone
China 215335
Phone: +86 512 57155001
Fax: +86 512 57155059

Europe
Tieblokkenlaan 1
B-2300 Turnhout
Belgium
Phone: +32 (0)14 40 48 11
Fax: +32 (0)14 40 48 55

North America
250 Chester Street
Painesville, Ohio
44077 USA
Phone: +1 866-462-8379
Fax: +1 888-358-4469