



Automotive Foam-Backed Fabric Materials

For automotive manufacturers, there are many applications where foam-backed fabric is adhered to plastic materials, such as the plastic bolster in an auto's interior door panel.

Manufacturers are looking for a solution that is easy to apply, provides a durable bond to foam and plastic inserts, and can meet the requirements of interior automotive use. These requirements include high temperature resistance (greater than 200°F or 93°C), humidity resistance, and low fog producing materials. Fogging refers to the tendency of PVC materials used in automotive interiors to produce a film or fog on the inside car windshield.

3M™ High-performance Adhesive and Laminating Adhesive provides an industry standard solution for this application.

3M Laminating and High Performance Adhesives

3M Laminating Adhesive 486MP, which uses 3M High-performance Adhesive 200MP, is the industry standard for automotive, appliance, electronic, and military markets with proven reliability.

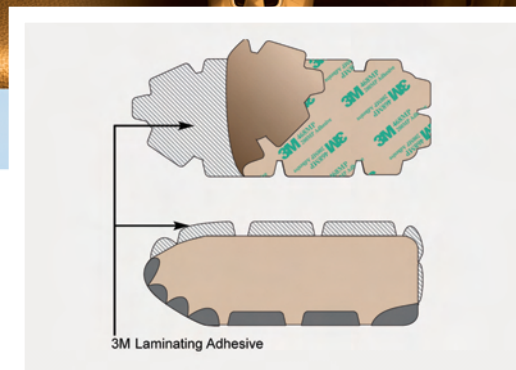
These adhesives provide distinct advantages:

Easy application: can be applied on the assembly line to increase throughput and save time;

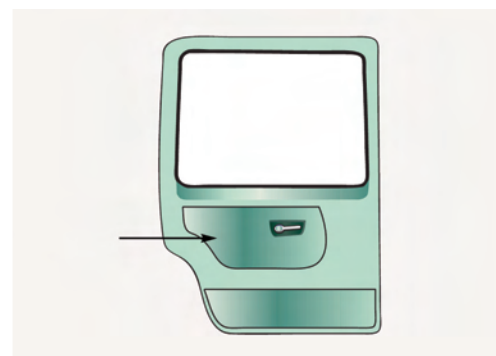
Smooth adhesive: no bumps or bubbles in the door panel;

High temperature resistance: the bond between the bolster fabric and the door panel can stand up to temperature extremes because of the high shear strength of the 3M 200MP adhesive.

Foam-backed fabric is automatically laminated to the 3M Laminating Adhesive 486MP by Fabrico, then die-cut to a specified shape. At the manufacturer, the liner is removed from the die-cut part and the fabric is applied with the edge tabs wrapped around the plastic bolster.



3M Laminating Adhesive is applied to foam-backed fabric.



Foam-backed fabric is adhered to the plastic bolster of the automotive interior door panel.





Fabrico's Delta Rotary Press at the company's Kennesaw, GA facility, is used for die cutting, laminating, and single-color printing.

Fabrico Converting Capabilities

Fabrico has a broad range of cutting and laminating capabilities including the Delta Rotary Press, which provides die cutting, slitting, and laminating for high volume production, while economizing material usage with precise part nesting. Fabrico's design engineering team, together with a broad range of converting equipment, deliver custom materials solutions for unique size and shape requirements.

Fabrico can meet custom size and shape requirements, cut intricate patterns to tight tolerances, and laminate the material with pressure-sensitive adhesives. Material thicknesses range from 0.001" – 1", with widths up to 13". There is no limit on length of the sheeted materials, and the maximum for individual die-cut part lengths is 22". Laser cutting capabilities produce 0.040" slots and 0.010" diameters, significantly smaller than features cut by other types of converting equipment. Fabrico's rotary press performs with high accuracy, at tolerances to +/-0.005".

About Fabrico

Fabrico is the market leader in design and manufacturing services for flexible materials. By focusing on its customers'

needs, Fabrico has developed a reputation for solving unique challenges and providing sound customer solutions.

The company offers a wide range of product design and engineering capabilities including custom die cutting, rotary die cutting, prototyping, manufacturing, and final assembly and kitting.

Fabrico provides design solutions for several applications, including bonding and sealing, electrical insulation, EMI/RFI shielding, vibration dampening, masking, and many others. This broad base of expertise allows for creative and integrated solutions with strict adherence to application requirements.

What is a 3M Preferred Converter?

As a 3M Preferred Converter, Fabrico receives the latest in material information and exclusive training from 3M, further enhancing their expertise in the design and custom fabrication of flexible materials.

This alliance blends 3M's high-value products with Fabrico's applications and manufacturing expertise to provide customers with the best solution for their application.



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