



Wireless Device Housing Materials

For wireless device manufacturers, reliable die cut films play an important role in housing assemblies. By employing effective materials and proven converting techniques, companies can ensure the quality of their devices.

3M Wireless Device Housing Material

3M™ Thermo-Bond Film displays excellent adhesive properties with a variety of substrates. The material provides consistent, uniform thickness and can be die cut to precise, intricate shapes. Used in the housing assembly of wireless devices, 3M Thermo-Bond Film creates a high strength bond in seconds when heat-activated.

3M Thermo-Bond Film is a thin, adhesive-backed, thermoplastic film, laminated with a liner. It is a flexible, light colored film with good adhesion qualities. Key features include:

- Suitable for kiss- or through-die cutting
- Solvent-free
- Quick fixturing/holding strength
- Re-workable if needed

A variety of application equipment methods are available, including a hot roll laminator, heated static press, autoclave, or hot shoe thermode. Since Thermo-Bond Films are thermoplastic materials, no curing during heating or aging occurs.

Fabrico Converting Capabilities

Fabrico's broad range of cutting capabilities includes the Delta Rotary Press, which provides die cutting and laminating for high volume production, while increasing materials economy with precise die cut part placement and nesting. Fabrico utilizes its experienced design engineering team and a broad range of in-house converting equipment to provide custom flexible material solutions for unique size and shape requirements.



Used in the housing assembly of wireless devices, 3M Thermo-Bond Film makes a high strength bond in seconds.



3M Thermo-Bond is a flexible, light colored, heat-activated, thermoplastic adhesive bonding film.



3M's Thermo-Bond Film exhibits good adhesion to a variety of metal and plastic substrates.





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

Fabrico can meet custom size and shape requirements, cut intricate patterns to tight tolerances, and laminate the material with pressure-sensitive adhesives. Material thicknesses can range from 0.001" – 15", with widths up to 13". There is no limit on the length of the sheeted materials, and the maximum for individual die-cut part lengths is 22". Laser cutting capabilities can produce 0.040" slots and 0.010" diameters, significantly smaller than the 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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