



EMI/RFI Shielding Materials

EMI/RFI shielded rooms require shielding of seams and apertures. 3M™ Aluminum Foil Tapes in both lined and non-lined versions provide effective shielding in both roll and die-cut applications.

Electromagnetic Interference (EMI) includes any undesired disturbance, either radiated or conducted, that degrades the proper operations of electrical or electronic equipment. EMI occurs when the operating frequency of one device overlaps that of another. Shields, like metals or metal foil tapes, block radiant energy and keep signals either inside the room or out.

Radio Frequency Interference (RFI) is EMI that occurs in those frequency bands occupied by the majority of radio and other communication signals.

3M Aluminum Foil Tapes

3M Aluminum Foil Tapes offer economical shielding for both EMI and RFI where a moderate (25 db at 100 MHz) shielding effectiveness is required.

3M Aluminum Foil Tapes deliver the following advantages:

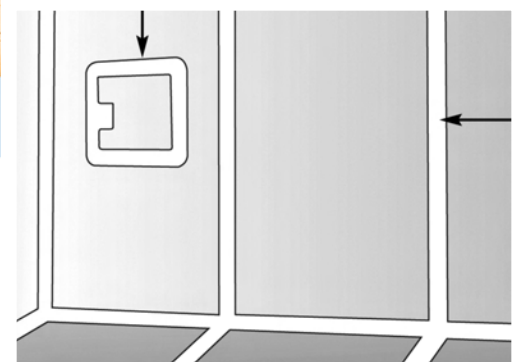
Easy application: lined tapes are faster and easier to apply than many typical shielding materials;

Die-cuts: lined tapes allow for precise die-cuts for difficult shielding operations;

Aluminum foil backing: durable, chemically resistant, electrically conductive backing that provides shielding for electrical interference;

Acrylic adhesive: permanent adhesive with a long life.

Tape is applied over seams, connectors, cabinet hooks, etc. in a conventional manner by hand or with special equipment. Tape needs to be rubbed down and the aluminum backing needs to be in electrical contact with the application's ground plane system. Die-cut parts can also be applied.



Tape or die-cut application is available for rooms that need EMI/RFI shielding.



Precision die-cutting of lined 3M Aluminum Foil Tape can be used for complex shielding applications.





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'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.

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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