



Thermal Management Solutions for Electronics

As electronics become more complex and dense, thermal management is increasingly critical for successful operation. Applications can range from bonding heat sinks to chips, to die-cut parts for heat dissipation with IC packages, transistors, LEDs, and more. 3M adhesives tapes, pads, epoxies, and greases offer a range of thermal management capabilities to meet electronics requirements.

3M Thermally Conductive Solutions Offer:

- High temperature adhesion
- Good dielectric strength
- High bond strength
- Improved surface wet-out
- Excellent shock performance

A variety of materials are available for electronics applications:

Thermally conductive transfer tape: in thicknesses from 5 mil to 20 mil, they are highly conformable, with high mechanical strength, improved surface wet-out, and excellent shock performance;

Thin bonding transfer tapes: where thin bonding and good thermal transfer is required;

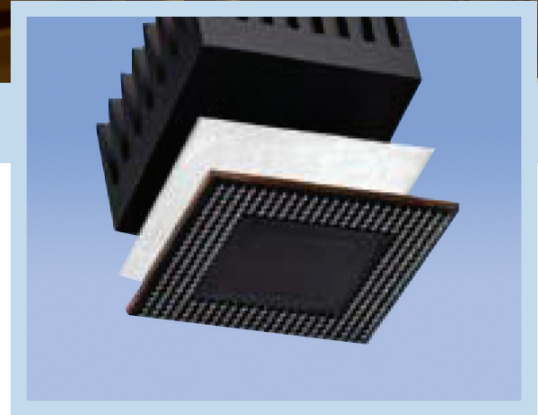
Acrylic soft tape: flame retardant for applications requiring gap filling and thermal transfer, most notably large surface area applications;

Interface pads: thermally conductive and gap filling, without bonding;

Epoxies: high adhesive strength, good surface wet-out, gap filling, good thermal transfer;

Conductive grease: thin thermal interface optimizes thermal heat transfer between hot running devices and heat sinks.

Fabrico helps customers identify the thermally conductive adhesive solution that will best work with their materials and application.



Die-cut parts for heat dissipation work well with IC packages.



Acrylic soft tape is ideal for applications requiring gap filling and thermal transfer.





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

Fabrico Converting Capabilities

Fabrico has a broad range of cutting and laminating capabilities for use with thermally conductive adhesive transfer tapes and pads, 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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