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3M™ Thermally Conductive Interface Tapes Selection Guide.

Engineered to provide efficient heat transfer along with adhesion and potentially replacing fasteners, 3M™ Thermally Conductive Interface Tapes are used to bond heat-generating components to heat sinks and cooling devices. Thermal management can help improve device reliability and extend the overall life of electronic devices. Each 3M tape combines high-performance adhesives and thermal conductivity for reliable thermal management. These tapes perform well in applications requiring high adhesion. Acrylic resin can typically operate up to 90°C. These tapes help provide robust thermal management for applications in a variety of market segments, such as automotive, LED lighting, communication infrastructure, and aerospace and defense.

For applications requiring heat distribution in select areas, 3M™ Thermally Conductive Heat Spreading Tape 9876 can be used to help provide heat distribution on the horizontal plane.

3M™ Thermally Conductive Interface Tapes

Product	Colour	Base material type	Product thickness (mm)	Filler type	Liner type	Peel strength @72 hr dwell (kg/in) * ASTM D-3330 at 70°C 3M test method at RT	Thermal conductivity (W/m-K) ***3M test method ** ASTM D5470 *ASTM C 1113 ASTM C177	Thermal impedance °C-in²/W (°C-cm²/W) 3M test method	Dielectric strength (kV/mm) *3M test method ASTM D-149	Volume resistivity (ohm-cm) ASTM D-2577	UL 94 flammability rating
8711-100	White	Filled acrylic polymer	0.1	Ceramic	Polyester dual liner	* >2.0	*0.6	–	26	Not applicable	V-0
8708-013	Yellowish white		0.13		Paper single liner	*Liner side > 3.0 *Non liner side > 1.0			15		–
8708-025			0.25								
8926-02			0.2		Clear polyester single liner	*Liner side: 2.0 *Non liner side: 2.0	**1.5	1.31 (8.49)	*15		V-0
8926-025			0.25					1.35 (8.74)			
8926-05			0.5					1.50 (9.70)			
8805	White		0.125		Silicone-treated polyester dual liner	1.5	0.6	0.5 (3.2)	26 (8815)	5.2×10^{11}	–
8810			0.25			2.1		0.9 (5.8)		3.9×10^{11}	
8815			0.375			2.5		1.2 (7.7)		3.8×10^{11}	
8820			0.5			3		1.5 (9.7)			
9882			0.05		Silicone-treated polyester single liner	0.5-0.9		0.35 (2.1)	30	Not applicable	
9876-10	Pink	Acrylic polymer on Cu layer	0.1	Not applicable	Release coated white paper liner	>2.5	*** > 250 / 0.8 (X-Y / Z axis)	0.3 (1.93)	*29		

Tested in accordance with 3M test method or test method otherwise specified. Contact your 3M technical representative for details.

- The following technical information and data should be considered representative or typical only and should not be used for specification purposes
- Per UL File Number: QMFZ2.E239181
- UL flame rating is only valid for the material coated on one side of aluminium plate with minimum 1.0mm thickness and the other side of recognised component (QMTS2) FR-4 laminate at minimum of 0.8mm thickness

For devices that deliver consistent reliability and performance, you need thermal management materials that stand up to a lifetime of heat. At 3M, we can help you find the right solution for your thermal management needs.

Contact us to learn more, or to help us find a custom solution for your application.
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Have questions? Need technical assistance? We're here to help!
Contact your 3M technical service representative for more information.

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