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Selecting the right 3M™ Thermally Conductive Interface Tapes

In order for devices to deliver consistent reliability and performance, you need thermal management materials that stand up to a lifetime of heat. Our 3M™ Thermally Conductive Interface Tapes are engineered to provide efficient and cost effective thermal transfer when bonding heat sinks, heat spreaders and other cooling devices to IC packages, power transistors and other heat-generating components.

Each tape combines high performance acrylic adhesive with highly conductive particles for reliable thermal interface. They apply quickly and easily with high conformability for excellent wet-out on surfaces. Choose from a variety of tape thicknesses and single and double-sided options for the right solution for your specific application.

3M™ Thermally Conductive Interface Tapes Selection Guide

Product Number	Thickness (mm)	Color	Thermal Conductivity (W/m-K)	Thermal Impedence ($C\text{-}cm^2/W$)	Peel Strength (kg/inch) - initial	Peel Strength (kg/inch) - 72 Hour aging	Dielelectric Strength (kV/mm)	Volume Resistivity (ohms-cm)	UL Rating*	Application
8708-013	0.13	Yellowish white	0.6	No data	Liner side : 2.0 Non-liner : 0.8	Liner side : 3.0 Non-liner : 1.0	15	No data	NA	LED BLU; Heat sink assembly
8708-025	0.25	Yellowish white	0.6	No data	Liner side : 2.0 Non-liner : 0.8	Liner side : 3.0 Non-liner : 1.0	15	No data	NA	LED BLU; Heat sink assembly
8708-050	0.50	Yellowish white	0.6	No data	Liner side : 2.0 Non-liner : 0.8	Liner side : 3.0 Non-liner : 1.0	15	No data	N/A	LED BLU; Heat sink assembly
8709-02	0.20	White with gray dot	1.0	No data	2.5	5.0	10	No data	N/A	LED BLU; Heat sink assembly
8709-025	0.25	White with gray dot	1.0	No data	2.5	5.0	10	No data	N/A	LED BLU; Heat sink assembly
8709-05	0.50	White with gray dot	1.0	No data	2.5	5.0	10	No data	N/A	LED BLU; Heat sink assembly
8926-02	0.20	Yellowish white	1.5	8.5	1.3	2.0	15	No data	V0**	LED BLU; Heat sink assembly
8926-025	0.25	Yellowish white	1.5	8.7	1.3	2.0	15	No data	V0**	LED BLU; Heat sink assembly
8926-05	0.50	Yellowish white	1.5	9.7	1.3	2.0	15	No data	V0**	LED BLU; Heat sink assembly
8940	0.19	Beige	0.4	5.1	1.3	1.7 (24 hr.)	33	2.5×10^{13}	N/A	Automotive, LED BLU
8943	0.17	Beige	0.4	5.1	1.3	1.7 (24 hr.)	33	2.5×10^{13}	N/A	Automotive, LED BLU
8805	0.125	White	0.6	3.2	1.0	1.5	26	3.9×10^{11}	N/A	LED BLU; Heat sink assembly
8810	0.25	White	0.6	5.8	1.3	2.1	26	3.9×10^{11}	N/A	LED BLU; Heat sink assembly
8815	0.375	White	0.6	7.7	1.5	2.5	26	3.9×10^{11}	N/A	LED BLU; Heat sink assembly
8820	0.50	White	0.6	9.7	1.7	3.0	26	3.9×10^{11}	N/A	LED BLU; Heat sink assembly
9882	0.50	White	0.6	2.1	0.8	1.3	30	2.0×10^{14}	N/A	Heat sink assembly
9885	0.125	White	0.6	3.2	1.2	1.6	30	2.0×10^{14}	N/A	Heat sink assembly
9890	0.25	White	0.6	5.7	1.8	2.4	30	2.0×10^{14}	N/A	Heat sink assembly

* Per UL File Number: QMFZ2.E239181.

** UL flame rating is only valid for the material coated on one side of aluminum plate with minimum 1.0 mm thickness and the other side of recognized component (QMTS2) FR-4 laminate at minimum of 0.8 mm thickness.

We are confident that 3M has the right solution for your thermal management application. If your needs aren't reflected in this guide, custom options are available. To learn more about 3M™ Thermally Conductive Silicone Interface Pads, visit 3M.com/Electronics.

Have questions? Need technical assistance? We're here to help! Contact your 3M technical service representative for more information.

Safety Data Sheet: Consult safety data sheet (SDS) prior to use.

Regulatory: For regulatory information about this product, contact your 3M representative.

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