

Selecting the right 3M™ Thermally Conductive Acrylic Interface Pads

For devices that deliver consistent reliability and performance, you need thermal management materials that stand up to a lifetime of heat. Our 3M™ Thermally Conductive Acrylic Interface Pads are engineered to provide high levels of conductivity that make them appropriate for a wide range of uses that help speed device assembly and extend component life.

Conformable for easy handling, these pads can be die cut to fit most applications. All are UL listed and offer excellent dielectric strength.

3M™ Thermally Conductive Acrylic Interface Pads Selection Guide

Series Number	Thickness (mm)	Color	Thermal Conductivity (W/m-K)*	Thermal Impedance (C-cm ² /W)**	Hardness (Shore 00)	Dielectric Strength (kV/mm)	Volume Resistivity (ohms-cm)	UL Rating***	Application
5570N	0.5, 1.0, 1.5, 2.0	White with light gray dots	1.3	4.3, 7.6, 10.9	50	20	2.9×10^{12}	V2 (0.5mm) V0 (≥ 1.0 mm)	Automotive; TV/Display; Data storage
5571N	0.5	Yellowish white	2.0	5.2	70	13	3.3×10^{12}	V2	Automotive; TV/Display; Data storage
5571	0.75, 1.0, 1.5, 2.0	Yellowish white	2.0	5.2, 8.0, 10.8, 13.6	70	13	3.3×10^{12}	V0	Automotive; TV/Display; Data storage
5589H	1.0, 1.5	White/ Light gray	2.0	8.6, 10.8	50	21	3.4×10^{12}	V0	Automotive; TV/Display; LED; Data storage; Battery
5590H	0.5, 1.0, 1.5	White/ Light gray	3.0	3.0, 4.5, 6.1	60	16	2.7×10^{12}	V0	Automotive; TV/Display; LED; Data storage; Battery
5567H	0.5, 1.0, 1.5	White/ Light gray	3.0	No data	60	16	5.9×10^{12}	V0	Automotive; TV/Display; Data storage
5578H	0.5, 1.0	White/ Light gray	3.5	5.4	70	19	1.7×10^{12}	V0	Automotive; TV/Display; Data storage
5500H	0.5, 1.0	White/ Light gray	3.0	No data	55	18	15×10^{12}	V0	Automotive
5510H	1.0, 1.5	White/ Light gray	2.0	No data	50	19	4.9×10^{12}	V0	Automotive

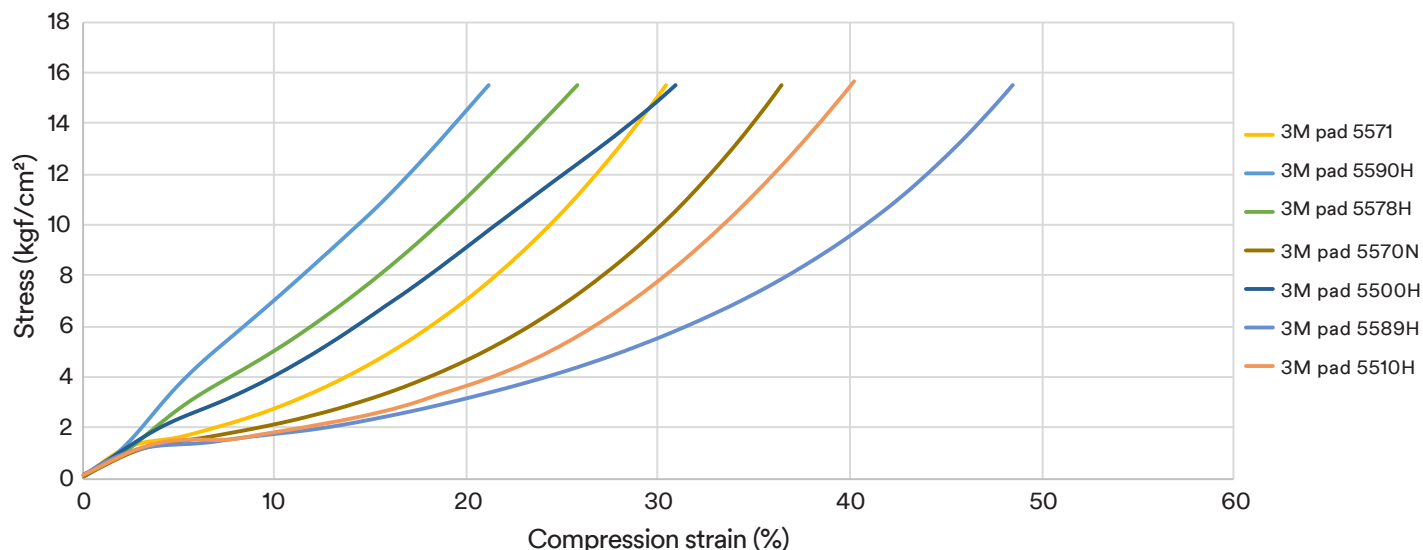
*Tested in accordance with 3M Test Method. Contact your 3M Technical Representative for details.

**Thermal impedance is measured with the test sample under a nominal 10 psi pressure to reflect a typical end use application.

*** UL File Number for 3M pads 5570N, 5571N, 5571 and 5578: QMFZ2.E239181; UL File Number for 3M pads 5589H, 5567H, 5510H, 5500H and 5590H: QMFZ2.E176845

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Stress vs. compression curve¹



¹ Sample size: 25.4 mm × 25.4 mm × 2.0 mm

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 Acrylic 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 prior to use.

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

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60-5005-0053-7
11/2017