

Selecting the right 3M™ Thermally Conductive Silicone 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 Silicone Interface Pads are engineered to provide high levels of conductivity for a wide range of uses that help speed device assembly and extend component life.

Soft and conformable for easy handling, these pads can be die cut to fit most applications and offer excellent dielectric strength.

3M™ Thermally Conductive Silicone Interface Pads Selection Guide

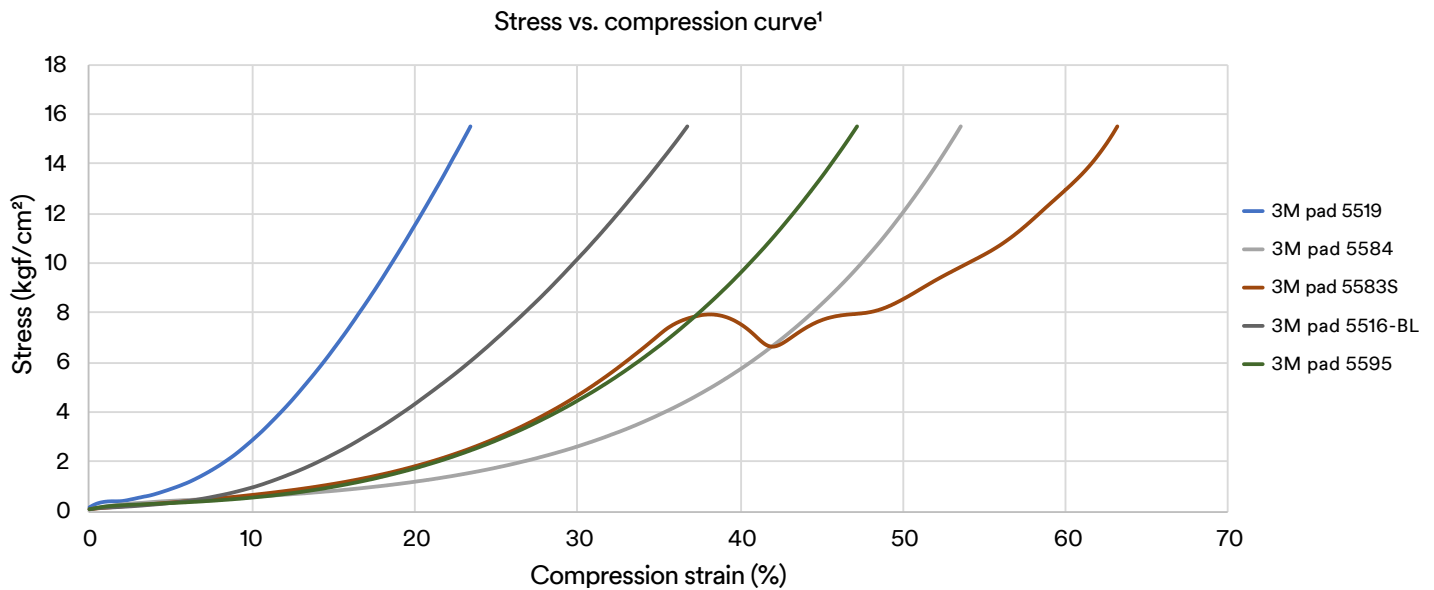
Series Number*	Thickness (mm)	Color	Thermal Conductivity (W/m-K)**	Hardness (Shore 00)	Dielectric Strength (kV/mm)	Volume Resistivity (ohms-cm)	UL Rating***	Application
5591	1.0, 1.5, 2.0	White	1.0	10~15	8	2×10^{12}	None	TV/Display; Network; Automotive
5583S	1.0, 1.5, 2.0	White	1.0	10~15	8	2×10^{12}	V0	
5584	1.0, 1.5, 2.0	White	1.1	40~50	7	3×10^{12}	None	
5595	1.0, 1.5, 2.0	Gray	1.6	50~60	8	5×10^{12}	V0	
5595S	1.0, 1.5, 2.0	Gray	1.6	50~60	8	5×10^{12}	V0	
5516	1.0, 1.5, 2.0	Gray	3.1	1.0 μ m: 50~60 1.5 - 2.0 μ m: 55~65	3.2	6.9×10^{14}	V0	
5516S	1.0, 1.5, 2.0	Gray	3.1	1.0 μ m: 50~60 1.5 - 2.0 μ m: 55~65	5.2	6.9×10^{14}	V1	
5519	1.0, 1.5, 2.0	Gray	4.9	60~80	2	1.7×10^{14}	V0	
5519S	1.0, 1.5, 2.0	Gray	4.9	60~80	3	1.7×10^{14}	V0	
5514	0.2, 0.25	Gray	1.6	55	14	8.6×10^{14}	V1	
5515	0.2, 0.25	Light gray with yellow	3.0	80	14.5	4.5×10^{14}	V0	
5515S	0.2, 0.25	Light gray with yellow	3.0	90	17.7	8.6×10^{14}	NA	

*Pads ending with S have a polymeric film on one side to be used as a non-tacky surface for ease of reworking an assembly.

**3M tested in accordance with ASTM D5470 test method.

***Per UL File Number: QMFZ2.E239181.

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¹ Sample size: 25.4 mm × 25.4 mm × 22 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 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.

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

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