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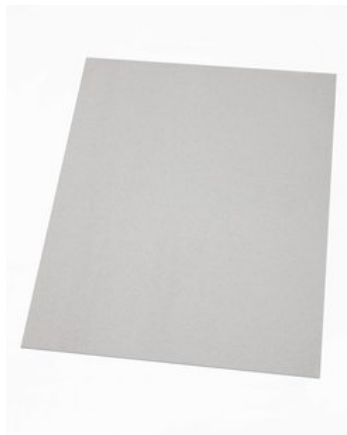
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3M™ Thermally Conductive Acrylic Interface Pad 5590H

3M ID AM000003708



3M™ Thermally Conductive Acrylic Interface Pad 5590H is a soft acrylic elastomer based interface pad. It has high thermal conductivity, good electrical insulation properties and is ideally suited for applications that require non-silicone properties.

Features and Benefits

- Good softness and conformability to non-flat surfaces
- Excellent compressive stress relaxation
- Non-silicone acrylic elastomer
- Good dielectric performance
- Good surface tack leads to low thermal resistance at surface
- Thickness : 0.5 mm, 1.0 mm, 1.5 mm
- Excellent durability for long term thermal conductivity and electric insulation stability

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Product Attributes

Application	Battery Thermal Management , LED Lighting Thermal Management , Thermal Gap Pad , Thermal Interface-Damping-Cushioning
Application Category	Thermal Interface Materials
Base Material	Filled Acrylic Polymer
Carrier Type	No Carrier
Color	Light Gray/White
Dielectric Strength	33.0 kV/mm
Easy Release Top Liner Type	No Liner
Flammability Rating	UL 94 V-0
Hardness	Shore 00 = 60
Liner Type	Single
Product Series	5590H
Thermal Conductivity	3.0 W/m-K
Thermal Impedance	0.46 Degree C-in ² /W (20.0 mil), 0.70 Degree C-in ² /W (40.0 mil), 0.95 Degree C-in ² /W (60.0 mil)
Thermal Impedance (metric)	3.0 Degree C cm ² /W (0.50 mm), 4.5 Degree C cm ² /W (1.0 mm), 6.1 Degree C cm ² /W (1.5 mm)
Tight Side Release Liner Type	PET Film
	20.0 mil , 40.0 mil , 60.0 mil

**Total Tape Thickness
without Liner**

**Total Tape Thickness
without Liner (metric)**

0.50 mm , 1.0 mm , 1.5 mm

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