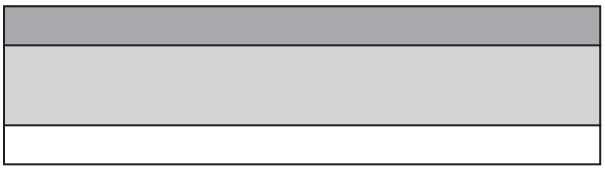
3M™ Thermally Conductive Acrylic Interface Pad 5567H

Product Description

3M™ Thermally Conductive Acrylic Interface Pad 5567H is designed to provide a preferential heat transfer path between heat generating components like Integrated Circuit Chip and heat spreaders. 3M Pad 5567H consists of a highly conformable slightly tacky acrylic elastomer sheet filled with conductive ceramic particles which provide special features listed as follows.

- High anti-flammable. UL94 V-0 (under application for approval).
- No silicone is used, siloxane gas which often causes electric connection failure can not be generated.
- Good softness and conformability even to non-flat IC surfaces.
- Incorporates a thin firm acrylic layer for good handling.
- Good thermal conductivity and good electrical insulation properties.
- Slight tack allows pre-assembly. Good wettability for better thermal conductivity.

Construction



Thermally conductive firm acrylic elastomer (very low tack)

Thermally conductive conformable acrylic elastomer (low tack)

Film liner

*Sheet type: Liner on Low tack layer *Roll Type: Liner on very low tack layer

Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Property	Method	Value
Color		Light grey / White
Thickness (mm)	3M method	0.5 / 1.0 / 1.5
Thermal Conductivity (W/mK)	3M method	3.0
Flammability	UL 94	Meets V-0 (under application for approval)
Density (g/cm^3, @ 25°C)	JIS K6249	2.1
Hardness (Shore 00)	TS-KOR-217	60
Volume Resistivity (Ω-cm)	JIS K6249	5.9 x 10^{12}
Dielectric Strength (kV/mm)	JIS K6249	16

Heat Resistance

Duration (hrs)	Initial	500	1000	2000
Thermal Conductivity (W/mK)	3.0	3.0	3.0	3.0
Hardness (Asker C)	30	31	31	33
Appearance	–	No effect	No effect	No effect

Aged at 110°C in high temperature chamber.

Hardness test using Shore 00 test has a nominal value of 60. Hardness testing using the Asker C test method has a nominal value of 30-31.

Certification/Recognition

MSDS: 3M has not prepared a MSDS for this product which is not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, the product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.

RoHs Complaint/REACH Compliant: This product complies with the European Union's "Restriction of Hazardous Substances" (RoHs) initiative and with European REACH regulations 2002/95/EC and 2005/618/EC.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-251-8634. Address correspondence to: 3M, Electronics Markets Materials Division, 3M Center, Building 225-3S-06, St. Paul, MN 55144-1000. Our fax number is 651-778-4244 or 1-877-369-2923. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

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