

# 3M™ Hyper Soft Thermally Conductive Interface Pads 5519 / 5519S

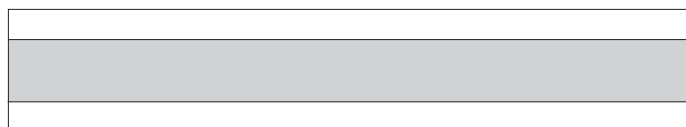
## Product Description

3M™ Hyper Soft Thermally Conductive Interface Pads 5519 / 5519S are designed to provide a preferential heat transfer path between heat generating components and heat sinks, heat spreaders or other cooling devices. These products consist of a highly conformable slightly tacky silicone elastomer sheet filled with thermally conductive ceramic particles which provide special features listed as follows.

- Very high thermal conductivity and good electrical insulation properties.
- Good softness and conformability even to non-flat surfaces.
- “S” version incorporates a thin PEN (polyethylene-naphthalate) film carrier for improved handling.
- Slight tack allows pre-assembly. Good wettability for better thermal conductivity.

## Construction

### 3M™ Hyper Soft Thermally Conductive Interface Pad 5519



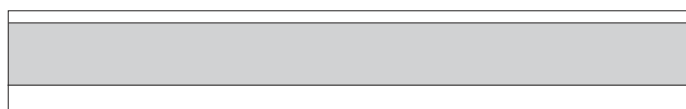
**Removable Film liner**

**Thermally conductive silicone elastomer**

**Removable Film liner**

Standard thickness (excludes liner): 0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm

### 3M™ Hyper Soft Thermally Conductive Interface Pad 5519S



**Permanent PEN Film (0.009 mm) carrier**

**Thermally conductive silicone elastomer**

**Removable Film liner**

Standard thickness (excludes liner): 0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm

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## Typical Physical Properties

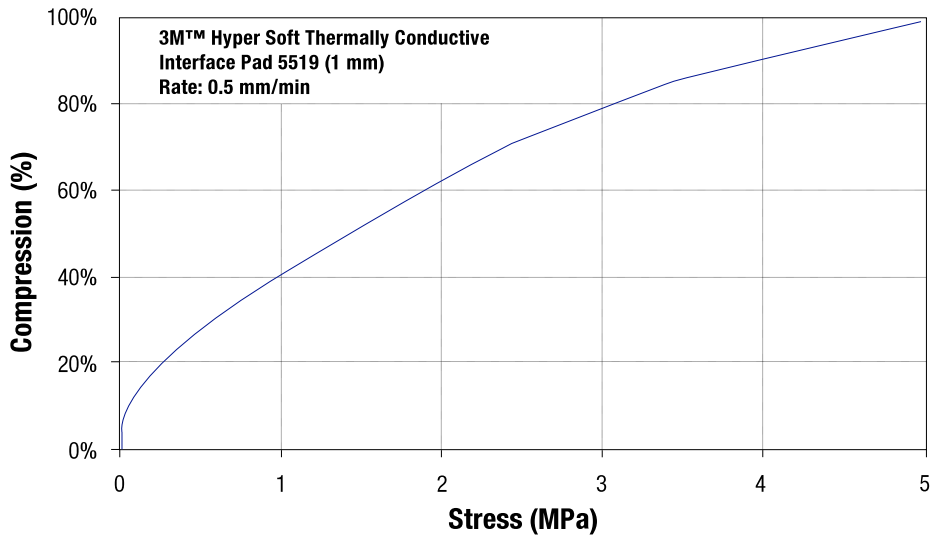
**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

3M™ Hyper Soft Thermally Conductive Interface Pads 5519 / 5519S		
Property	Method	Value
Thermal Conductivity (W/mK)	ASTM D5470	4.1
Flammability	UL 94	3M V1 / V0 TM <sup>Note 2</sup>
Density (g/cm <sup>3</sup> , @ 25°C)	–	3.1
Hardness	Shore 00 <sup>Note 1</sup>	80
Volume Resistivity (Ω-cm)	ASTM D257	1.7 x 10 <sup>14</sup>
Dielectric Strength (kV/mm)	ASTM D149	1.1
Dielectric Constant	ASTM D150	19.5 (1-100 kHz)

**Notes:**

- 1) Shore 00 Test Method based on a 6mm thick sample. Results will vary for different thickness samples.
- 2) 3M V1 or V0 TM Notes:
  - a) Test results based on 3M UL Test Method.
  - b) The 3M V1 TM testing applies to the 0.5mm thick products in the “S” version.

### Compression vs. Stress



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## Certification/Recognition

**MSDS:** 3M has not prepared a MSDS for these products which are 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, these products 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 their performance and present potential health and safety hazards.

**TSCA:** These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

**RoHS:** These products comply with the requirements of EU Directive 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, Building 21-1W-10, 900 Bush Avenue, 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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