

3M™ Thermally Conductive Interface Tape 8926 Series

Product Description

3M™ Thermally Conductive Interface Tape 8926 Series has 0.20mm, 0.25mm, and 0.50mm thick pressure sensitive adhesive tapes filled with thermally conductive ceramic particles. These products are designed to have good converting ability, handing, and re-workability through the introduction of a thin PET carrier. These products are designed with a soft acrylic polymer and multiple thickness options to allow excellent wet-out or conformability to many surfaces. The tape series has good adhesion performance to many substrate types and has excellent dielectric performance.

Key Features

- Good thermal conductivity (>1.5 W/mK)
- Excellent dielectric performance
- Low thermal impedance
- Good and reliable adhesion performance to Al and SS
- Vibration damping

Product Construction

	Clear PET Release Liner
	Thermally Conductive Acrylate Adhesive
	Clear PET Carrier
	Thermally Conductive Acrylate Adhesive

Material Description

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

3M™ Thermally Conductive Interface Tape 8926 Series			
Product Number	8926-02	8926-025	8926-05
Color	Yellowish White		
Adhesive Type	Soft Acrylic Adhesive		
Tape Thickness	0.20 mm (8 mils)	0.25 mm (10 mils)	0.50 mm (20 mils)
Primary Filler	Ceramic		
Product Liner	75 µm Clear PET Film		
Product Carrier	15-30 µm Clear PET Film		
Roll Length	Standard: 40m (custom size can be supplied by request)		

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Typical Applications

- General heat sinks bonding
- Integrated chip (IC) packaging heat conduction
- Printed circuit board
- LED module/board bonding and display assembly (e.g. LCD and LED devices)
- COF chip heat conduction
- Mechanical fastening such as clamp, bracket, or screw can be used in parallel with this tape

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. Final product specifications and testing methods will be outlined in the product's Certificate of Analysis (COA) that is shipped with the commercialized product.

3M™ Thermally Conductive Interface Tape 8926 Series				
Property	Method*	8926-02	8926-025	8926-05
90° Peel Adhesion (g/25.4mm) 15 min. dwell at RT SUS 304	D3330	1300	1300	1300
90° Peel Adhesion (g/25.4mm) 72 hr. dwell at 70°C SUS 304	D3330	2000	2000	2000
Dynamic Shear (kg/6.25cm ²) 15 min. dwell at 65°C SUS to SUS	D1002	15		
Dielectric Strength (kV/mm)	D149	15		
Foam Density (g/cm ³)	D6111	1.60 (+/- 0.10)		
Surface Resistivity (Ω-cm)	D257	1.6 x 10 ¹¹	1.6 x 10 ¹¹	1.5 x 10 ¹¹
Volume Resistivity (Ω-cm)	D257	5.2 x 10 ¹¹	3.9 x 10 ¹¹	3.8 x 10 ¹¹
Thermal Impedance (°C-cm ² /W)	3M Test Method	8.49	8.74	9.70
Thermal Conductivity** (W/mK)	D5470	1.5		
Operating Temperature (°C)	3M Test Method	Up to 90 (hours/days) Up to 80 (weeks/months)		
Flammability***	UL94	V-0		

*Methods listed as ASTM are tested in accordance with the ASTM method noted

**Thermal Conductivity Interface Tape 8926 Test Methods:

- 1.5W/m-K in XY direction per Hot wire plane Test method (Test equipment: QTM-500)
- 1.5W/m-K in Z direction tested in accordance with a simplified ASTM D5470 method (Test equipment: T3ster DynTIM)

***Flame rating is only valid for the material coated on one side of aluminum plate with minimum 1.0mm thickness and the other side of recognized component (QMTS2) FR-4 laminate at a minimum 0.8mm thickness.

Note: The end-use customer application, design and verification testing will determine the final in-use effective temperature range based on each application's environmental conditions.

Application Techniques

- Bond strength is dependent upon the amount of adhesive to surface contact developed. Firm application pressure helps to develop better adhesive contact and improve bonding strength.
- To obtain optimal adhesion, the bonding surfaces must be clean, dry, and well unified. Typical surface cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or heptane. Note: Be sure to follow manufacturer's safety precautions and directions for use when using solvents.
- Ideal tape application temperature range is 21°C to 38°C (70°F to 100°F). Initial tape application to surfaces at temperatures below 10°C (50°F) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

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Storage and Shelf Life

The shelf life of 3M™ Thermally Conductive Interface Tape 8926 Series is 12 months from the date of manufacture when stored in original packaging material and stored at 21°C (70°F) and 50% relative humidity.

Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is manufactured and is deemed commercially available from 3M. The COA contains the 3M specifications, test methods, and test results for the product's performance attributes that the product will be supplied against. Contact your local 3M representative for this product's COA.

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

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