

3M™ Electrically Conductive Acrylic Pad (eCAP) 7805

Product Description

3M™ Electrically Conductive Acrylic Pad (eCAP) represents a breakthrough in electrically conductive PSA tape and conductive gasket technology. 3M™ Electrically Conductive Acrylic Pad 7805, a double sided tape, consists of a high performance 3M adhesive loaded with conductive fillers and is ideal for EMI/RFI shield and EMI/RFI gasket to metal surfaces. The PSA matrix is filled with silver coated fillers which allow interconnection between substrates through the adhesive thickness (the “Z-axis”) and also provides electrically conducting in the plane of the adhesive (“X-Y Axis”). 3M eCAP 7805 is ideal for electrical bonding and ESD grounding of electronic and electrical devices. 3M eCAP 7805 can be applied as die cut parts or in roll form and has good adhesion to common EMI/RFI substrates such as aluminum, stainless steel, and smooth gasket materials. 3M eCAP 7805 also electrically connects and mechanically bond EMI/RFI shield and gasket to metal frames and enclosures. The low contact resistance and tape construction result in good EMI performance.

Proprietary Technology

3M™ Electrically Conductive Acrylic Pad 7805 is a self-stick EMI gasket pad or tape which provides good electrical conductivity for EMI shielding and ESD grounding. Made with a proprietary technology, the pad achieves a unique filler distribution in three dimensional structure throughout the adhesive matrix. This makes the tape an excellent choice for use near electronic components and assemblies. The tape is supplied on 50 meter rolls in width 600 mm.

Product Construction

Product	3M™ Electrically Conductive Acrylic Pad 7805
Color	Yellow
Adhesive Type	Filled Acrylic
Filler Type	Silver coated particles
Adhesive Thickness*	0.15 mm, 0.20 mm, 0.25 mm
Release Liner (Face Side)	50 µm silicone treated PET film Transparent and easy release
Release Liner (Back Side)	75 µm silicone treated PET film Printed and tight release

*Contact your local 3M sales representative for additional information on thicknesses and width.



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Typical Properties

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

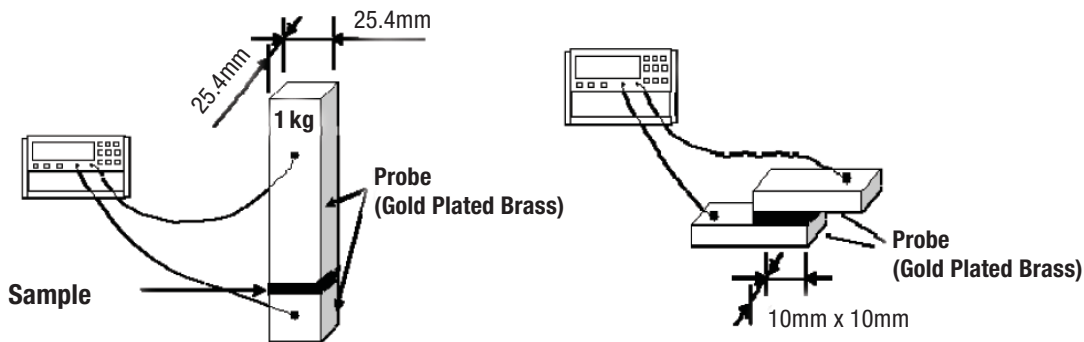
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Product No.	7805	Test Method
¹ Z-axis Resistance 1 inch x 1 inch	0.005 Ω	3M TM
² Z-axis Resistance 10 mm x 10 mm	0.01 Ω	3M TM
Surface Resistance	5 Ω / □	3M TM
90° Peel Adhesion (FS)	1500 gf / inch	3M TM
90° Peel Adhesion (BS)	1500 gf / inch	3M TM
³ Compression Stress	14 kg / sq. in.	3M TM

¹Z-axis Resistance: Measured between gold plated brass probes with 1 kg load.
Contact area: 25.4 mm x 25.4 mm, Dwell time: 60 seconds.

²Z-axis Resistance: Measured between gold plated brass probes without load.
Contact area: 10 mm x 10 mm, Dwell time: 60 seconds.

³Compression Stress: Measured at 25% compression (12 mm/min).



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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.

Important Notice

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Electronics Markets Materials Division

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
1-800-251-8634 phone
651-778-4244 fax
www.3M.com/electronics

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