

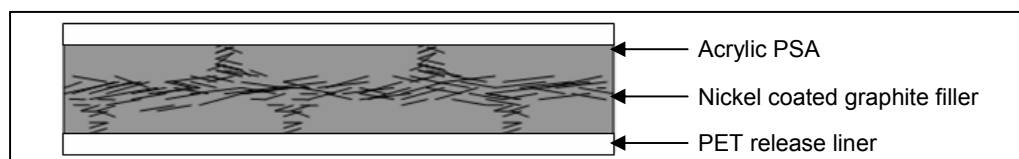
# 3M Electrically Conductive Acrylic Pad eCAP 7810

**Product Description:** 3M™ XYZ-Axis Electrically Conductive Acrylic Pad(eCAP) represents a breakthrough in PSA tape and conductive gasket technology. eCAP 7810 conducts electricity through the thickness (Z-axis) and in the plane of the adhesive (X, Y planes) and is ideal for EMI/RFI shield and EMI/RFI gasket to metal surfaces. eCAP 7810, a double sided tape, consists of a high performance 3M adhesive loaded with conductive fillers. XYZ-Axis Electrically Conductive Pad 7810 is ideal for EMI shielding to electronic and electrical devices. eCAP 7810 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. eCAP 7810 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.

**Patented Technology:** 3M XYZ-Axis Electrically Conductive Acrylic Pad is a self-stick EMI gasket pad 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:

### • eCAP 7810



### • eCAP 7810

|                   |                                     |
|-------------------|-------------------------------------|
| Color             | Grey                                |
| Conductive Filler | Nickel Graphite                     |
| Matrix            | Acrylic Pressure Sensitive Adhesive |
| Pad Thickness*    | 0.15, 0.20, 0.25, 0.30 mm           |

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

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

• **eCAP 7810**

| Product No.                         | 7810                  | Test Method |
|-------------------------------------|-----------------------|-------------|
| Specific Gravity                    | 1.5 g/cm <sup>3</sup> | 3M TM       |
| Hardness (Shore A)                  | 30                    | 3M TM       |
| Surface Resistance                  | 10 Ω/□                | 3M TM       |
| Z-axis Resistance                   | 0.5 Ω                 | 3M TM       |
| Compression Deflection <sup>1</sup> | 12 kg/sqin            | 3M TM       |
| Compression Set <sup>2</sup>        | 10 %                  | 3M TM       |
| 180° Peel Adhesion                  | 700 gf/inch           | 3M TM       |

<sup>1</sup> Compression Deflection : Measured at 25% compression (12 mm/min)

<sup>2</sup> Compression Set : Compressed 25% for 22 hrs at 70 °C, expressed as a percentage of the original thickness, as follows:  $C_d = [(t_o - t_f) / t_o] \times 100$

$C_d$  = compression set expressed as a percent of the original thickness

$t_o$  = original thickness of test specimen

$t_f$  = final thickness of test specimen

**Important Notice:**

All statements, technical information and recommendations related to the Seller's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use.

Any statements or recommendations of the Seller which are not contained in the Seller's current publications shall have no force or effect unless contained in an agreement signed by an authorized officer of the Seller. The statements contained herein are made in lieu of all warranties, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose which warranties are hereby expressly disclaimed.

SELLER SHALL NOT BE LIABLE TO THE USER OR ANY OTHER PERSON UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR STRICT LIABILITY, FOR ANY INJURY OR FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES SUSTAINED OR INCURRED BY REASON OF THE USE OF ANY OF THE SELLER'S PRODUCTS THAT WERE DEFECTIVE.

3M Electrical Markets Division

**Electrical Markets Division**

6801 River Place Blvd. Austin, TX 78726-9000

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9