

3M™ Non-silicone Polyimide Film Tape 7412B

Product Description

3M™ Non-silicone Polyimide Film Tape 7412B is a 2 mil polyimide backing with acrylic adhesive designed for surface protection, insulation and light shielding in high-temperature environments.

Product Construction

Backing	Adhesive	Color	Liner	Standard Roll Length
Polyimide	Acrylic	Black	PET	100 meters

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.

		ASTM Test Method
Backing Thickness:	2.0 mil (0.050 mm)	D-3652
Tape Thickness:	3.2 mils (0.080 mm)	D-3652
Adhesion to Steel:	12.0 N/25mm	D-3330, 180° Peel
Tensile Strength:	170 N/25mm	D-882
Elongation at Break:	30-60%	D-882
Working Temperature*:	-40~155°C	/
Dielectric Strength:	6 Kv	D-149
Surface Resistance:	> 100 MΩ	D-149
ECF:	> 0.95	3M Test Method
Flame Retardancy:	Comply with UL510 FR	UL-510 FR
RoHS:	Pass	SGS
Halogen Free:	Pass	SGS

*Temperature use range is defined as the maximum time at the stated temperature.



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General Information

- Splice-free maximum roll length is 100 meters -0/+2 meters.
- Typical slit roll width tolerance: ± 0.8 mm.
- Product provided on plastic cores and individually packed. Core ID = 76.7 mm \pm 0.1 mm.
- Substrate should be smooth, clean, dry and oil-free to insure good wet-out and adequate adhesion.
- Tape may not bond or conform to rough or sharply curved surfaces.
- Adhesion and holding power are reduced at elevated temperatures.

Application Ideas

- Designed for high-temperature electrical applications in which a tough, thin insulating material that is solvent resistant is required for wrapping coils, transformers, capacitors and wire harnesses.

Key Attributes

Features	Advantages	Benefits
Acyclic adhesive	Non-silicone Heat stable Good tack and adhesion	Leaves no silicone residue High temperature performance Instantaneous adhesion
Black polyimide backing	Dimensionally stable at hi-temp Black PI backing	Meets high temperature Light shielding
PT backing and acrylic adhesive	Insulation	High level insulation performance

Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.

Shelf Life

To obtain best performance, use this product within 18 months from date of delivery.

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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.

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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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60-5002-0536-8

