



Polyimide Film Electrical Tape 1205

Polyimide Film Tape with Acrylic Pressure Sensitive Adhesive

1. Product Description

3M™ Polyimide Film Electrical Tape 1205 consists of a 0,025 mm polyimide film backing with acrylic adhesive. Its acrylic pressure-sensitive adhesive allows it to be used up to 155 °C, and it is UL 510 Flame Retardant. Like most 3M insulated tapes, Tape 1205 is available in standard and custom widths and lengths. The standard length is 33 m, and can be cut to widths ranging from 6,4 mm to 58,4 cm. Longer lengths up to several times the normal length are possible, dependent upon width. Please check with customer service.

2. Applications

3M™ Tape 1205 is used for high temperature electrical applications in which a tough, thin insulating material is required for wrapping coils, transformers, capacitors, wire harnesses, and for anchoring leads / terminal boards. It can also be used in printed circuit board assembly as a wave solder masking tape.

3. Typical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 23 °C unless otherwise stated.

Physical Properties (Test Method) (ASTM D1000 unless noted)	Typical Value
Colour	Amber
Adhesive	Acrylic
Backing Thickness	0,025 mm
Overall Thickness	0,076 mm
Tensile Strength	53 N/10 mm
Elongation (% at break)	55 % minimum
Adhesion to steel	3,8 N/10 mm
Printable	No

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Electrical Properties	Typical Value
Dielectric Breakdown	> 7,500 V
Insulation Resistance	> 1 x 10 ⁶ Ohms
Comparative Tracking Index (IEC Method 112)	CTI Group IIIb
Electrolytic Corrosion Factor (3M internal test method)	1.0

4. User Information

4.1 Specifications

Tape 1205 is a polyimide film with thermosetting acrylic pressure-sensitive adhesive. The tape is coated on one side with pressure-sensitive adhesive, which does not require heat, moisture or any other preparation prior to or subsequent to application. The adhesive coating should be smooth and uniform and free of lumps and bare spots. There should be no separator between adjacent layers of the roll. The tape performs at a temperature of -40 °C to 155 °C without substantial loss of tensile or electrical properties.

4.2 Agency Approvals and Self Certifications

For RoHS information, please visit www.3M.com/RoHS

4.3 Shelf Life and Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled area (10 °C to 27 °C and <75 % relative humidity).

4.4 Availability

Please contact your local distributor.

5. Additional Information

To request additional product information, see address below.

Important Notice

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes.

All questions of warranty and liability relating to 3M products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

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