

3M™ Polyimide Film Electrical Tape 1205

Polyimide Film Tape with Acrylic Pressure-Sensitive Adhesive

Data Sheet

October 2013

Description	3M™ Polyimide Film Electrical Tape 1205 is a 1-mil polyimide film backing with acrylic adhesive. Its acrylic pressure-sensitive adhesive allows it to be used at 311°F (155°C), and it is UL 510 Flame Retardant. Like most insulated tapes, form 3M, Tape 1205 is available in standard and custom widths and lengths. The standard length is 36 yards, and can be cut to widths ranging from 1/4" to 23". Longer lengths up to several times normal length are possible, dependent upon width. Check with Customer Service.
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Agency Approvals & Self Certifications	UL recognized component listing not to exceed 155°C (311°F), Meets flame retardant requirements of UL510, Product Category OANZ2, and 3M File No. E17385 UL File Number E17385 A and B, Guide OANZ2. Underwriters Laboratories (UL) recognized products have been evaluated for use as components of end-product equipment that is listed or classified by UL. To achieve Underwriters Laboratories recognition, component construction must meet UL specifications and conditions of acceptability for proper and safe use of the component or product. Product Category OANZ2, File E17385 RoHS 2011/65/EC "RoHS 2011/65/EU" means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M
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Applications	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 also is used in printed circuit board assembly as a wave solder masking tape.
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Specifications	Tape 1205 is a polyimide film with thermosetting acrylic pressure-sensitive adhesive. The tape shall be coated on one side with pressure-sensitive adhesive, which shall not require heat, moisture or other preparation prior to or subsequent to application. The adhesive coating shall be smooth and uniform and be free of lumps and bare spots. There shall be no separator between adjacent layers of the roll. The tape shall perform at a temperature of -40°F (-40°C) to 311°F (155°C) without substantial loss of tensile or electrical properties
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Typical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

Physical Property (Test Method) (ASTM D1000 unless noted)	Typical Value US units (metric)
Color	Amber
Adhesive	Acrylic
Backing Thickness	1.0 mils (0,025 mm)
Overall Thickness	3.0 mils (0,076 mm)
Tensile Strength	30 lbs / inch width (53 N / 10 mm)
Elongation (% at break)	55% minimum
Electrolytic Corrosion Factor (3M internal test method)	1.0
Adhesion to Steel	35 oz / inch width (3,8 N / 10 mm)
Comparative Tracking Index (IEC Method 112)	CTI Group IIIb
Printable	No
Dielectric Breakdown	> 7,500 V
Insulation Resistance	> 1 x10 ⁶ Ohms

Shelf Life & Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

Availability

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-676-8381.

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Electrical Markets Division
6801 River Place Boulevard
Austin, TX 78726-9000
800.676.8381
Fax: 800.828.9329
www.3m.com/oem

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