



1351T-1 Electrical Tape

Flame-Retardant, Triple-Layer Polyester Film Tape with Acrylic Pressure-Sensitive Adhesive for use as Reinforced Insulation

Data Sheet



Product Description

3M™ 1351T-1 Tape is a flame-retardant, triple-layer polyester film tape which has UL component Recognition for temperatures not exceeding 130°C. It is designed for use as REINFORCED INSULATION as specified in UL 1950/IEC 60950 clause 2.9.4.2 and offers excellent solvent resistance, good quick stick, even unwind, and is suitable for use on automatic taping equipment.

- UL Recognized Flame Retardant
- UL Recognized Class 130°C
- UL Recognized CTI Group I
- Decabromo Diphenyl Oxide (DBDPO) Free
- Solvent resistant without thermosetting
- 3M Logo Imprinted for Identification

Color

3M 1351T-1 Tape is available in yellow and white.

Applications

3M 1351T-1 Flame-Retardant, Triple-layer Polyester Film Tape with Acrylic Pressure-Sensitive Adhesive is designed for use as inner-layer insulation on transformer magnet wire windings where REINFORCED INSULATION is specified.

UL Component Recognition

UL Recognized for use at temperature not exceeding 130°C, flame retardant per UL 510 and UL CTI Group I rated. The UL File Number is E17385, Product Category OANZ2. The file contains data that will facilitate acceptance in specific end use applications as REINFORCED INSULATION. Underwriters Laboratories (UL) Recognized products are evaluated for use as components of endproduct equipment that is Listed or Classified by UL.

To achieve UL Recognition, component construction must meet UL specifications and conditions of acceptability for proper and safe use of the component products.

Properties	Typical Values
Adhesive	Acrylic
Backing	Triple-Layer PET Film
Backing Thickness	1.5 mils/0.037 mm
Total Thickness ¹	3.0 mils / 0.08 mm
Colors	Yellow, White
Temperature Class	130°C (266°F)
Adhesion to Steel ¹	25 oz/in (2.7 N/10mm)
Insulation Resistance ¹	>1 x 10 ⁶ megohms
Breaking Strength ¹	44 lbs./in (77N/10mm)
Elongation ¹ (% at break)	100
Dielectric Breakdown ¹	6.5 KV
UL 510 Flame Retardant ²	Pass
CTI Rating	Group I
Electrolytic Corrosion Factor ³	1.0

Note: Typical properties are not recommended for specification purposes. Product Specifications will be provided upon request.

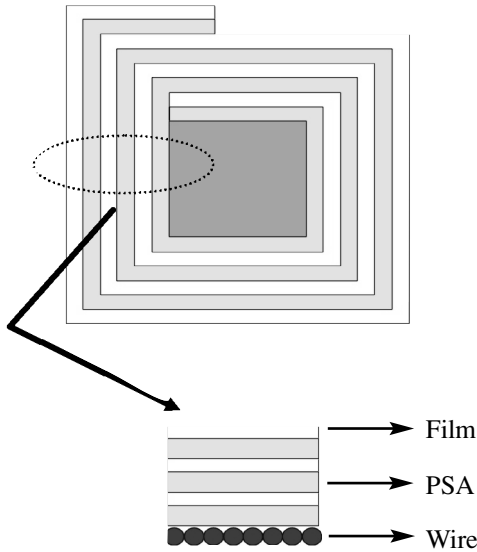
Footnote: 1 Test Method ASTM D 1000

2 UL-recognized for flame retardancy per UL510, Product Category OANZ2, File E17385

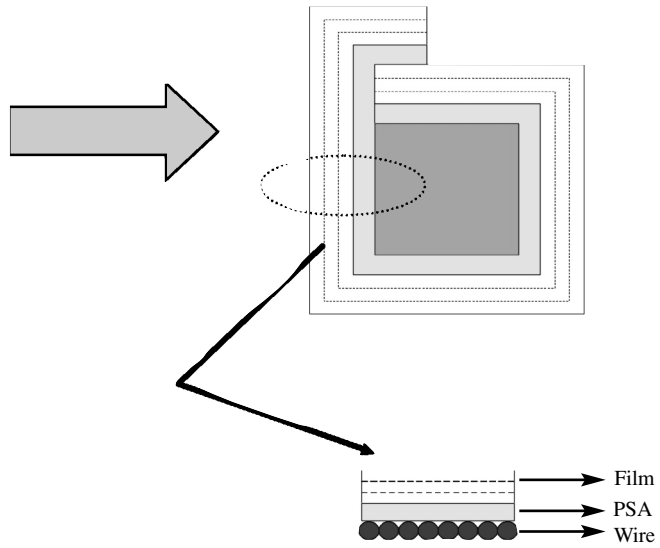
3 3M Test Method-Available on request

Application Example

One Layer (3 Wraps)



Triple Layer (1 Wrap)



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IMPORTANT NOTICE

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture as of the date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.**

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Electrical Products Division

6801 River Place Blvd.
Austin, TX 78726-9000
<http://www.3M.com/elpd/oem>