



# 1350T-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™ 1350T-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 tested for UL 1950 Reinforced Insulation Requirements
- Tested and complies with IEC 60950/EN 60950 according to TÜV and Nemko
- UL Recognized Flame Retardant
- UL Recognized Class 130°C
- UL Recognized CTI Group II
- CSA component recognized
- Decabromo Diphenyl Oxide (DBDPO) Free
- Solvent resistant without thermosetting
- 3M Logo Imprinted for Identification

#### Color

3M 1350T-1 Tape is available in yellow.

#### Applications

3M 1350T-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 as specified.

#### UL and CSA Component Recognition

UL Recognized for use at temperature not exceeding 130°C, flame retardant per UL 510 and UL CTI Group II 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 end product equipment that is Listed or Classified by UL. CSA Component File Number is LR93411, Product Class 9052-30.

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

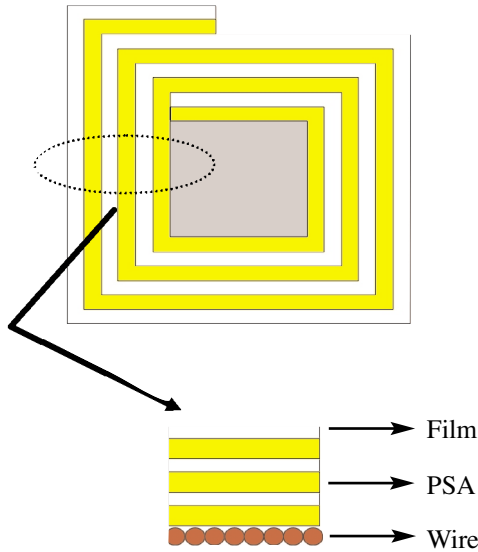
Properties	Typical Values
Adhesive	Acrylic Pressure Sensitive
Backing	Triple-Layer PET Film
Backing Thickness	1.5 mils/0.037 mm
Total Thickness <sup>1</sup>	3.0 mils /0.08 mm
Color	Yellow
Temperature Class (UL 510)	130°C (266°F)
Adhesion to Steel <sup>1</sup>	30 oz/in (3.3 N/10mm)
Insulation Resistance <sup>1</sup>	>1 x 10 <sup>6</sup> megohms
Breaking Strength <sup>1</sup>	50 lbs./in (88 N/10mm)
Elongation <sup>1</sup> (% at break)	100
Dielectric Breakdown <sup>1</sup>	7.0 KV
Electrical Strength per UL 1950-Para 5.1 – Any 2 layer combination	4.5 KV
UL 510 Flame Retardant <sup>2</sup>	Pass
CTI Rating	Group II
Electrolytic Corrosion Factor <sup>3</sup>	1.0

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

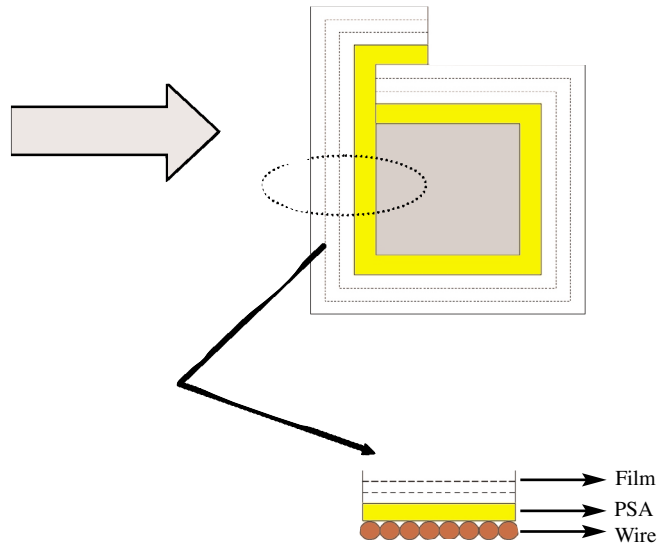
Footnote: 1 Test Method ASTM D 1000/IEC 60454 Part 2  
 2 UL-recognized for flame retardancy per UL510, Product Category OANZ2, File E17385/IEC 60454 Part 2  
 3 3M Test Method-Available on request

# 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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