

3M™ Polyester Film Electrical Tape 54 With Thermosetting Rubber Adhesive

Data Sheet

September 2012

Description 3M™ Polyester Film Tape 54 is a 1-mil transparent polyester film with rubber thermosetting adhesive.

Applications The 54 tape is especially suited for use is wrapping fine wire coils where magnet wire serves to color code.

Agency Approvals & Self Certifications UL recognized component listing not to exceed 130°C (266°F), 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.

RoHS 2002/95/EC



RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2002/618/EC, unless the substance is in an application that is exempt under RoHS. 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.

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 Properties (ASTM D1000 unless noted)	Typical Value US units (metric)
Adhesive	Thermosetting Rubber
Backing	Polyester Film
Backing Thickness¹	1.0 Mil
Total Thickness	2.5 mils (0,063 mm)
Color	Transparent
Electrical Property (ASTM D1000 unless noted)	Typical Value US units (metric)
Temperature Class	130°C (266°F)
Dielectric Breakdown¹	5,000 Volts
Insulation Resistance¹ (megohms)	>1 x 10 ⁶
Breaking Strength¹	25 lbs./in. (44 n/10 mm)
Elongation¹ (% at break)	100
Electrolytic Corrosion Factor²	1.0
Adhesion to Steel¹	45 oz./in. (4,9 n/10 mm)

*Footnote: 1. Test method ASTM D 1000
2. 3M Test Method-Available on request

3M™ Polyester Film Electrical Tape 54

Specifications 3M™ Polyester Film Tape 54 is a polyester film-backed tape with thermosetting rubber 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 -40F° (-40°C) to 266°F (130°C) without substantial loss of tensile or electrical properties.

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 3M™ Electrical Tape 54 is available in standard and custom widths and lengths. Standard length is 72 yards.

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.676.8381.

Important Notice All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. 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. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability This product will be free from defects in material and manufacture at the time 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 indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

3M is a trademark of 3M Company.



Electrical Markets Division

6801 River Place Blvd.
Austin, TX 78726-9000
800.676.8381
FAX: 800.828.9329
www.3M.com/oem

Please recycle
© 3M 2012 All rights reserved
78-8124-4755-1 Rev B