

Technical data sheet



Product: 5

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: ELEKTRO

Article group: KLEBEBAND

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3M™ POLYESTER FILM ELECTRICAL TAPE 5

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Tewipack Uhl GmbH
Industriestraße 15
D-75382 Althengstett

Telephone:
+49(0)7051/9297-0
Fax:
+49(0)7051/9297-99

E-Mail:
info@tewipack.de
Website:
www.tewipack.de

Managing director:
Alexander Uhl,
Michael Uhl
HRB 330424
Amtsgericht
Stuttgart

Bank details:
Sparkasse
Sindelfingen
Pforzheim
Calw
BLZ 666 500
85
Konto 17 787

Commerzbank
Sindelfingen
BLZ 603 400 71
Konto 8 001 166

Vereinigte
Volksbank AG
Böblingen
BLZ 603 900 00
Konto 80 089
003

Postbank
Stuttgart
BLZ 600 100
70
Konto 146
294 708



3M™ Polyester Film Electrical Tape 5 with Acrylic Adhesive

Data Sheet

June 2021

Product Description

3M™ Polyester Film Electrical Tape 5 is a clear, general purpose, 2.5-mil (0.064 mm) thick tape composed of a 1-mil (0.025 mm) thick polyester film backing coated on one side with a non-corrosive, acrylic pressure-sensitive adhesive.

- Commonly used in wrapping coils, capacitors, wire harnesses, transformers, shaded pole motors and fractional-horsepower motors
- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 130°C (266°F) per UL and CSA listings

Properties

<i>Physical Properties</i>	<i>Value Imperial (Metric)</i>	<i>Electrical Properties</i>	<i>Value Imperial (Metric)</i>
<i>Color - Visual</i>	Clear	<i>Dielectric Breakdown¹ - Minimum</i>	4000 V
<i>Adhesive</i>	Acrylic	<i>Electrolytic Corrosion Factor²</i>	1.0
<i>Backing</i>	Polyester Film	<i>Insulation Resistance¹ - Minimum</i>	1x10 ¹² Ω
<i>Mechanical Properties</i>	<i>Value Imperial (Metric)</i>		
<i>Backing Thickness - Nominal</i>	1 mil (0.025 mm)		
<i>Total Thickness¹</i>	2.5 +/- 0.5 mils (0.064 +/- 0.013 mm)		
<i>Adhesion to Steel¹ - Minimum</i>	28 oz/in (3.1 N/cm)		
<i>Breaking Strength¹ - Minimum</i>	20 lb/in (35 N/cm)		
<i>Elongation¹ - Minimum</i>	75%		

Notes:

1. ASTM D1000 Test Method - Properties measured at room temperature 73°F (23°C) unless otherwise stated
2. 3M Test Method ETM-54001 - 1.0 equates to no corrosion observed

Agency Approvals & Self Certifications

- UL Component Recognized: UL510A Standard, Category OANZ2, File No. E17385
- CSA Certified: Standard C22.2 No. 66, File No. 093411, Class 9052-30
- Self-certified to Commercial Item Description: A-A-59770A (2007) Type V (MF 2.5)
- For Regulatory information including RoHS, REACH, please visit www.3M.com/regs

Shelf Life & Storage

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

Availability

3M™ Polyester Film Electrical Tape 5 available from 3M authorized distributors / converters
Also available from 3M.com/oem or call 1.800.245.3573.

3M™ Polyester Film Electrical Tape 5 with Acrylic Adhesive

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3M

Electrical Markets Division

13011 McCallen Pass, Bldg. C

Austin, TX 78753

Phone: 800.676.8381

www.3M.com/oem

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