# 3M<sup>™</sup> Polyester Film Electrical Tape 54 with Thermosetting Rubber Adhesive

Data Sheet	May 2021
Product Description	3M™ Polyester Film Electrical Tape 54 is a clear, 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, thermosetting rubber pressure-sensitive adhesive.
	<ul> <li>Commonly used in wrapping coils, capacitors, wire harnesses, transformers, shaded pole motors and fractional-borsepower motors</li> </ul>

- motors and fractional-horsepower motors Adhesive requires no heat, moisture or other manner of preparation to affect application ٠
- Designed for continuous operation not exceeding 130°C (266°F) per UL and CSA listings ٠

Physical Properties	Value Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
Color - Visual	Clear	Comparative Tracking Index (CTI) <sup>3</sup>	I
Adhesive	Thermosetting Rubber	Dielectric Breakdown <sup>1</sup> - Minimum	4500 V
Backing	Polyester Film	Electrolytic Corrosion Factor <sup>2</sup>	1.0
Mechanical Properties	Value Imperial (Metric)	Insulation Resistance <sup>1</sup> - Minimum	1x10 <sup>12</sup> Ω
Backing Thickness - Nominal	1 mil (0.025 mm)		
Total Thickness <sup>1</sup>	2.5 +/- 0.5 mils (0.064 +/- 0.013 mm)		
Adhesion to Steel <sup>1</sup> - Minimum	40 oz/in (4.4 N/cm)		
Breaking Strength <sup>1</sup> - Minimum	20 lb/in (35 N/cm)		
Elongation <sup>1</sup> - Minimum	75%		

### **Properties**

ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated 1.

3M Test Method ETM-54001 - 1.0 equates to no corrosion observed 2.

3. UL recognized to meet UL840 Material Group when tested to IEC 60112 on both sides of the tape

Agency Approvals & Self Certifications	<ul> <li>UL Component Recognized: UL510A Standard, Category OANZ2, File No. E17385</li> <li>CSA Certified: Standard C22.2 No. 66, File No. 093411, Class 9052-30</li> <li>Self-certified to Commercial Item Description: A-A-59770A (2007) Type VI (MFT 2.5)</li> <li>For Regulatory information including RoHS, REACH, please visit <u>www.3M.com/regs</u></li> </ul>	
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 54 available from 3M authorized distributors/converters	
	Also available from <u>3M.com/oem</u> or call 1.800.245.3573.	

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