# 3M™ Polyester Film Electrical Tape 1350F-1, 1350F-2 with Acrylic Adhesive

## Data Sheet — May 2022

***Product Description***

3M™ Polyester Film Electrical Tape 1350F is a yellow, white or black, UL recognized flame retardant, 2.5-mil (0.064 mm) or 3.5-mil (0.089 mm) thick tape composed of a 1-mil (0.025 mm) or 2-mil (0.051 mm) 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
- Decabromo Diphenyl Oxide (DBDPO) Free
- 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 / 1350F-1**

| *Physical Properties* | *Value Imperial (Metric)* | *Electrical Properties* | *Value Imperial (Metric)* |
|---|---|---|---|
| ***Color - Visual*** | Yellow, White, Black | ***Comparative Tracking Index (CTI)[4]*** | II |
| ***Adhesive*** | Acrylic | ***Dielectric Breakdown[1] - Minimum*** | 5000 V |
| ***Backing*** | Polyester Film | ***Electrolytic Corrosion Factor[3]*** | 1.0 |
| ***Flame Retardant[2]*** | Pass | ***Insulation Resistance[1] – Minimum (High Humidity Method)*** | $1x10^{12}$ Ω |
| ***Mechanical Properties*** | ***Value Imperial (Metric)*** | | |
| ***Backing Thickness - Nominal*** | 1 mil (0.025 mm) | | |
| ***Total Thickness[1]*** | 2.5 +/- 0.5 mils (0.064 mm +/- 0.013) | | |
| ***Adhesion to Steel[1] - Minimum*** | 25 oz/in (2.7 N/cm) | | |
| ***Breaking Strength[1] - Minimum*** | 20 lb/in (35 N/cm) | | |
| ***Elongation[1] - Minimum*** | 50% | | |

### *Properties / 1350F-2*

| *Physical Properties* | *Value Imperial (Metric)* | *Electrical Properties* | *Value Imperial (Metric)* |
|---|---|---|---|
| ***Color - Visual*** | Yellow, White, Black | ***Comparative Tracking Index (CTI)[4]*** | IIIa |
| ***Adhesive*** | Acrylic | ***Dielectric Breakdown[1] - Minimum*** | 7000 V |
| ***Backing*** | Polyester Film | ***Electrolytic Corrosion Factor[3]*** | 1.0 |
| ***Flame Retardant[2]*** | Pass | ***Insulation Resistance[1] – Minimum (High Humidity Method)*** | $1x10^{12}$ Ω |
| ***Mechanical Properties*** | ***Value Imperial (Metric)*** | | |
| ***Backing Thickness - Nominal*** | 2 mil (0.051mm) | | |
| ***Total Thickness[1]*** | 3.5 +/- 0.5 mils (0.089 +/- 0.013 mm) | | |
| ***Adhesion to Steel[1] - Minimum*** | 25 oz/in (2.7 N/cm) | | |
| ***Breaking Strength[1] - Minimum*** | 40 lb/in (70 N/cm) | | |
| ***Elongation[1] - Minimum*** | 50% | | |

Notes:

1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. UL Recognized Flame Retardant per UL510A Standard
3. 3M Test Method ETM-54001 - 1.0 equates to no corrosion observed
4. UL Recognized to meet UL840 Material Group when tested to IEC 60112 on both sides of the tape

| | |
|---|---|
| ***Agency Approvals & Self Certifications*** | • UL Component Recognized: UL510A Standard, Category OANZ2, File No. E17385<br>• CSA Certified: Standard C22.2 No. 66, File No. 093411, Class 9052-30<br>• Self-certified to Commercial Item Description: A-A-59770A (2007) Type V (MF 2.5)*<br><br>• 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 1350F-1, 1350F-2 available from 3M authorized distributors / converters<br><br>Also available from www.3M.com/oem or call 1.800.676.8381 |

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