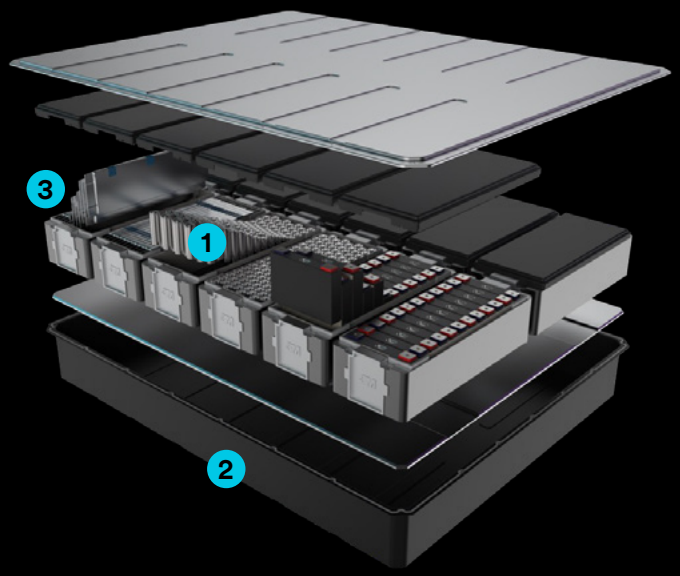
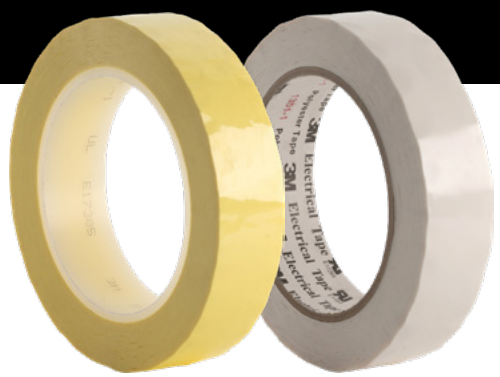
3M Science. Applied to Life.™

ePowertrain Electrical Insulation Solutions

Electrical Markets Division





3M™ Polyester Film Electrical Tape 1351-1, 1351-1 (1.5)

Product Description

3M™ Polyester Film Electrical Tape 1351-1, 1351-1 (1.5) series are yellow and white, UL recognized flame retardant, 2.5-mils (0.064 mm) or 2.8-mils (0.071 mm) thick tape composed of a 1-mil (0.025 mm) or 1.5-mil (0.051 mm) polyester film backing coated on one side with a non-corrosive, acrylic pressure-sensitive adhesive. 3M Tape 1351-1 offers similar performance to the 3M Tape 1350F-1, 1350F-2, but with added benefits of Comparative Tracking Index (CTI) tracking Level 1.

Potential Applications

1.  Cell Spacer Insulation, Thermal Fin Insulation
2.  Pack Retaining Straps
3.  Inverter/Power Electronics, Busbar Insulation

Example applications shown. Product can be used in many EV battery applications where electrical insulation is needed. Contact your 3M representative to discuss potential applications.

Product Benefits

- Comparative Tracking Index of Material Group I
- UL Component Recognized: UL510A Standard, Category OANZ2, File No. E17385
- Flame-retardant
- Reliable electrical insulation
- UL temperature rated up to 130°C (266°F)
- Non-corrosive, acrylic pressure-sensitive adhesive
- RoHS Compliant - For Regulatory information including RoHS, REACH, please visit www.3M.com/regs

3M™ Polyester Film Electrical Tape 1351-1, 1351-1 (1.5)

Mechanical Properties

Mechanical Property	3M Tape 1351-1	3M Tape 1351-1 (1.5)
Backing thickness	1 mil (0.025 mm)	1.5 mils (0.038 mm)
Total thickness	2.5 mils, +/-0.5 mils (0.064 mm +/-0.013 mm) per ASTM-D1000	2.8 mils, +/-0.4 mils (0.072 mm +/-0.011 mm) per ASTM-D1000
Adhesion to steel	≥ 21 oz/in (2.3 N/cm) per ASTM-D1000	≥ 21 oz/in (2.3 N/cm) per ASTM-D1000

Electrical Properties

Electrical Property	3M Tape 1351-1	3M Tape 1351-1 (1.5)
Dielectric breakdown voltage	≥ 5,000 V per ASTM-D1000	≥ 5,500 V per ASTM-D1000

Notes: The technical information and data in the above tables should be considered representative or typical only and should not be used for specification purposes.

Product Construction

- Adhesive
- PET film

Electrical Insulation Materials

Intended Use: These products are intended for use within a high voltage lithium-ion battery pack to help prevent the unintended contact of electrically charged surfaces of cells and pack components operated at standard temperature conditions in automotive, off-highway, industrial and marine battery applications. Since there are many factors that can affect a product's use, the customer remains responsible for determining whether the 3M product is suitable and appropriate for the customer's specific application and system, including customer conducting an appropriate risk assessment and evaluating the 3M product in customer's application and system.

Restricted Use: 3M advises against the use of this 3M product in any application other than the stated intended use(s), since other applications have not been evaluated by 3M and may result in an unsafe or unintended condition

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