# 3M™ Flat-Backed Paper Electrical Tape 12 with Thermosetting Rubber Adhesive

**Data Sheet** **August 2021**

***Product Description***

3M™ Flat-Backed Paper Electrical Tape 12 is a tan, 5.25-mil (0.133 mm) thick tape composed of a 3-mil (0.076 mm) flatback paper backing coated on one side with a thermosetting rubber pressure-sensitive adhesive.

- Commonly used for banding coils and for cover on bobbin-wound coils
- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 105°C (221°F)

***Properties***

| *Physical Properties* | *Value Imperial (Metric)* |
|---|---|
| *Color - Visual* | Tan |
| *Adhesive* | Thermosetting Rubber |
| *Backing* | Flatback Paper |
| ***Mechanical Properties*** | ***Value Imperial (Metric)*** |
| *Backing Thickness - Nominal* | 3 mil (0.076 mm) |
| *Total Thickness*[1] | 5.25 +/- 0.75 mils (0.133 +/- 0.019 mm) |
| *Adhesion to Steel*[1] *- Minimum* | 30 oz/in (3.3 N/cm) |
| *Breaking Strength*[1]*- Minimum* | 22 lb/in (38.5 N/cm) |
| *Elongation*[1]*- Maximum* | 5% |

| *Electrical Properties* | *Value Imperial (Metric)* |
|---|---|
| *Dielectric Breakdown*[1]*- Minimum* | 1500 V |
| *Insulation Resistance*[1]*- Minimum* | $1x10^5$ Ω |

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

***Agency Approvals & Self Certifications***

- 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™ Flat-Backed Paper Electrical Tape 12 available from 3M authorized distributors/converters

Also available from 3M.com/oem or call 1.800.245.3573.

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