



# Electrical Tape 1093

## Polyimide Film Tape With Thermosetting Silicone Pressure-Sensitive Adhesive



### Data Sheet

#### Product Description

3M™ Electrical Tape 1093 is a 1-mil polyimide film backing with silicone thermosetting pressure-sensitive adhesive.

- High temperature applications to 180°C
- High puncture resistance
- Conformable
- High Dielectric Breakdown
- UL510 Flame Retarded

#### UL Component Recognition

UL Recognized for use at temperatures not exceeding 180°C. UL File Number E17385, Guide OANZ2.

Underwriters Laboratories (UL) Recognized products are evaluated for use as components of end-product equipment that is Listed or Classified by UL. To achieve Underwriters Laboratories Recognition, component construction must meet UL specifications and conditions of acceptability for proper and safe use of the component or products.

#### Applications

3M Electrical Tape 1093 is especially suited to high temperature masking applications and DC/fractional motor applications.

| Typical Properties                   | Typical Values         |
|--------------------------------------|------------------------|
| Adhesive                             | Silicone Thermosetting |
| Backing                              | Polyimide film         |
| Backing Thickness <sup>1</sup>       | 1.0 mil (0.025mm)      |
| Total Thickness <sup>1</sup>         | 2.5 mils (0.063mm)     |
| UL510 Flame Retarded <sup>2</sup>    | Yes                    |
| Temperature Class                    | 180°C                  |
| Dielectric Breakdown <sup>1</sup>    | 7,500 Volts            |
| Breaking Strength <sup>1</sup>       | 35 lbs./in (62N/10mm)  |
| Elongation <sup>1</sup> (% at break) | 50%                    |
| Adhesion to Steel <sup>1</sup>       | 20 oz/in (2.2N/10mm)   |

**Note: Typical properties are not recommended for specification purposes. Product specifications will be provided upon request.**

Footnote: <sup>1</sup> Test Method ASTM D1000

<sup>2</sup> UL recognized for flame retardancy per UL510

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