



## Scapa 1801

### Kapton® Polyimide Silicone Adhesive Tape

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#### DESCRIPTION

Scapa 1801 is a 25µm Kapton® polyimide film single coated with a cured silicone adhesive system, 60µm total thickness. Recommended for a variety of high temperature protection and insulation applications (180°C thermal class H).

#### APPLICATIONS

- High-temperature masking.
- Bundling and fixing components (thermo switches) exposed to high temperatures.
- For electrical insulation of coils, transformers, wires and cables for class H (180°C) applications.
- For all applications with die cut items please ask for our 1801 Version with interleave packaging.

#### PRODUCT BENEFITS

- Good resistance to most alcohols, esters, ketones and oils.
- Removes cleanly and in one piece after being exposed to high temperatures.
- High strength backing provides superior puncture, tear and abrasion resistance.
- Resistant to chemical attack
- Excellent thin electrical insulation.
- UL 510 approval – Guide OANZ 2: File E103655.
- Flame retardant.
- Service temperature: 180°C continuous – Thermal Class H.
- Can be used short term up to temperatures of 400°C.
- Resists baking temperatures up to 260°C for 20 min.

## TECHNICAL PROPERTIES

| Technical Property  | Nominal Value | Unit   | Test Method |
|---------------------|---------------|--------|-------------|
| Adhesive Thickness  | 0.04          | mm     | AFERA 5006  |
| Breakdown Voltage   | 6.35          | kV     | AFERA 4011  |
| Carrier Thickness   | 0.025         | mm     | AFERA 5006  |
| Elongation at Break | 60            | %      | AFERA 5004  |
| Peel Adhesion       | 6.3           | N/25mm | AFERA 5001  |
| Tensile Strength    | 100           | N/25mm | AFERA 5004  |
| Total Thickness     | 0.06          | mm     | AFERA 5006  |

## STANDARD PRESENTATIONS

- Colours: Amber
- Core: 76 mm plastic core
- Packaging: Plastic bag
- Roll Length: 33 meters
- Roll Width: 6, 9, 12, 15, 19, 25, 30, 38, 50, 75 and 100 mm

## RECOMMENDATIONS

The rolls should be stored flat on their cut edges in the original packaging. The product must be protected from dust, heat, moisture, direct sunlight and solvent fumes. The shelf life will vary depending on conditions of storage but should not be less than one year from the date of manufacture if stored in a moderate climate and good conditions.

Surfaces should be clean, dry and free of dust, grease, oil or other contaminants. Adhesive performance should be carefully checked when used on substrates containing plasticisers.

Note: Kapton® is a Du Pont de Nemours registered trademark.