



## TECHNICAL DATA

# Scapa 1801

## Kapton® Polyimide Silicon Adhesive Tape

### DESCRIPTION

**Scapa 1801** is a 25µ Kapton® polyimide film single coated with a cured silicone adhesive system, 67µ total thickness. Recommended for a variety of high temperature protection and insulation applications (180°C thermal class H).

### APPLICATIONS

- Masking of PCB gold fingers and protecting plug-in connectors and switches during wave soldering
- 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

### 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

	Unit	Nominal Value	Test Method
Total Thickness	mm	0.067	TM 02
Adhesive Thickness	g/m <sup>2</sup>	0.041	TM 27
Carrier Thickness	mm	0.025	TM 02
Peel Adhesion	N/25mm	7.0	TM 31
Tensile Strength	N/25mm	110	TM 36
Elongation at Break	%	35	TM 36
Breakdown Voltage	kV	6.35	AFERA 4011

## STANDARD PRESENTATION

- Roll length : 33 metres
- Roll width : 6, 9, 12, 15, 19, 25, 30, 38, 50, 75 and 100 mm
- Core : 76 mm plastic core
- Packaging : Plastic bag
- Colour : Amber

## 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<sup>®</sup> is a Du Pont de Nemours registered trademark.*