

# adhesive tapes

## Kapton™ film insulation adhesive tape Intertape 4118

		Value	Minimum value	Test norm
<b>High Temperature Resistance</b>	Backing	Kapton™ film		
	Backing thickness	mm	0,025	ASTM D 1000
	Total thickness	mm	0,063	ASTM D 1000
<b>High adhesive electrical grade</b>	Adhesive type	silicone		
	Colour	amber		
	Adhesion to steel	N/25mm	2,7	ASTM D 1000
	Tensile strength	N/25mm	53	ASTM D 1000
	Elongation at break	%	60	ASTM D 1000
<b>Fufills Class H requirments</b>	Breakdown voltage	Volts	7000	ASTM D 149
	Thermal class	°C	180	UL 510
	insulation Resistance	Mohm	10 E6	
	Corrosion factor	Direct 1.0/A,1		VDE 340
<b>Kapton® Polyimide film</b>	Flammability	BU1* passed UL 510		UL 510
	UL file Number	E 20780		
	CSA file Number	LR94980		
	MIL-P-46112B and ASTM D5213, Type 1,			

### General description

Kapton® polyimide backing and silicone adhesive offers outstanding thermal resistance and excellent electrical insulating properties. This tape is used where toughness, puncture resistance, extreme resistance to heat, and flame retardance are required. Operating temperature range is -60°C (-76°F) to +260°C (500°F).

### Form of Delivery

Length : 33/66 M  
standard Width 610 mm  
other dimensions upon request

### Thermosettings cycles

#### Silicone adhesive

2 hours at 260°C ( 500°F)

24 hours at 260°C for maximum resistance to solvents

### Shelf life

4118 can be stored at room temperature for at least 12 months

### Application

Used on gold fingers for protection in wave soldering. Is being used as ground barrier and phase insulation in high performance toroidal coils. Also used as an outer wrap on small bobbin wound coils and on form wound coils for traction motors.

### Storage conditions

For the best shelf time storage, temperature should be: 15°C to 25 °C  
relative humidity : 40 % +/- 30 %

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**4118**