

# Technical Datasheet



## Kapton Tape & Dots

### Product Name:

Adhesive Kapton Tape & Dots

### Supplied By:

Warton Metals Limited  
Grove Mill Commerce Street  
Haslingden Lancashire BB4 5JT  
ENGLAND

Tel: + 44 (0) 1706 218888

Fax : + 44 (0) 1706 221188

### Introduction:

Kapton Tape and Dots are based on Dupont "Kapton" film, backed with a cross linked Silicone Polymer Adhesive.

Polymide film has been used successfully at temperatures up to 400 C and only begins to char at 800 C. The film does not melt and is resistant to a wide range of solvents, as shown below. These properties result in a tape with remarkable dimensional stability and excellent Electrical and Physical properties over a wide range of temperatures (-8 C to +370 C).

### Application:

Adhesive Kapton tape is an insulation tape for extreme temperatures, with excellent resistance to thermal radiation. This makes it ideal for masking Gold edge fingers and edge connectors during soldering and reflow soldering processes within the PCB assembly industry.

### Availability:

Kapton Tape is available in 3, 6, 9, 12, 19 and 25mm width rolls (Other sizes may be available). Each roll is 33 metres long. Kapton Dots are available in 4, 6, 9 and 12mm diameter and supplied per 1000 dots.

### Physical Properties:

Adhesive Type:	Silicone
Backing Thickness (mm):	0.025
Total thickness (mm):	0.065
Peel Strength (N/cm)	2.2
Tensile Strength (N/cm)	40 N/cm
Elongation (%)	70
Dielectric Strength (Volts)	7000

### Chemical Properties:

PH value of aqueous extract:	4.0-6.0
Freedom from corrosive sulphur:	No stain on copper

### Chemical & Solvent Resistance:

Bacteria & Fungi:	Excellent
Water:	Excellent
Salt water:	Excellent
Acids:	Excellent

Resistant to most alcohol's, Esters, Ketones and Oils, but not to Aliphatic & Aromatic Hydrocarbons).

### Storage & Application:

Storage:	The conditions under which this product is stored may affect its performance. Storage should be in dry, well ventilated rooms with a constitute temperature of around 20 C and should be protected from continuous exposure to direct sunlight.
Method of Application:	The product should always be applied to clean, dry, surfaces.

### More Information:

Please do not hesitate to contact Customer Services on: **+44 (0)1706 218888** for more information.

# Material Health & Safety Datasheet



<b>Section 1. Identification of the substance / preparation and of the company / undertaking</b>	
Product Name:	Kapton Tape & Dots
Supplied By:	Warton Metals Limited Grove Mill, Commerce Street. Haslingden. Lancashire. BB4 5JT. ENGLAND.
Emergency Telephone:	+44 (0)1706 218888
Emergency Fax:	+44 (0)1706 221188
<b>Section 2. Composition / Information on Ingredients</b>	
	Kapton polyimide film coated with a transparent organic peroxide cross linked silicone rubber adhesive. Polyimide film:46%, Silicone rubber adhesive: 54% Adhesive:99% silicone rubber and 1% organic peroxide cross linking agent.
<b>Section 3. Hazards Identification</b>	
	Organic peroxide. 2.4 dichlorobenzoyl peroxide UN No: 2138 UK hazard group rated 5.2.
<b>Section 4. First Aid Measures</b>	
	Not applicable
<b>Section 5. Fire Fighting Measures</b>	
	As an oxidising agent it produces free radicals under decomposition at elevated temperatures. When used at high temperatures, if small quantities of tape are involved as is often the case, normal air circulation will be all that is needed in case of overheating.
<b>Section 6. Accidental Release Measures</b>	
	Not applicable
<b>Section 7. Handling &amp; Storage</b>	
	No special handling or waste disposal considerations are necessary when using this product under normal conditions.
<b>Section 8. Exposure Controls &amp; Personal Protection</b>	
	Not applicable
<b>Section 9. Physical &amp; Chemical Properties.</b>	
Physical state:	Solid
Thermal characteristics:	N/A
Solubility:	Insoluble
Density:	N/A
<b>Section 10. Stability &amp; Reactivity</b>	
	Not applicable
<b>Section 11. Toxicological Information</b> ( toxic effects arising from exposure based on experimental and non experimental data)	
	Not applicable
<b>Section 12. Ecological Information</b>	
	Not applicable
<b>Section 13. Disposal Considerations</b>	
(Safe disposal of product, its residues and packaging materials):	As combustible, non toxic landfill dispersed in small quantities. Incinerate only in purpose built incinerators.
<b>Section 14. Transport Information</b>	
	Conditions under which these products are stored affect their performance. Storage should be in dry well-ventilated room with a reasonably consistent temperature around 20°C and protected from continuous exposure to direct sunlight.
<b>Section 15. Regulatory Information</b>	
	Not applicable
<b>Section 16. Other Information</b>	
Recommended uses and restrictions:	Use only as directed.
Date/Replacing:	August 1999 / VHM All previous health and safety datasheets.
Legend	N/A - Not applicable