

# KaptonTape.com

## Technical Datasheet

### 1, 2 and 5 Mil Kapton Film RoHS Compliant

#### Description:

DuPont™ Kapton® HN general-purpose film has been used successfully in applications at temperatures as low as -269°C (-452°F) and as high as 400°C (752°F). HN film can be laminated, metalized, punched, formed or adhesive coated. Kapton® HN is the recommended choice for applications that require an all-polyimide film with an excellent balance of properties over a wide range of temperatures.

#### Product Features:

- Thin and conformable enabling masking of uneven surfaces
- Wide operating temperature range up to 500°F
- Removes cleanly without adhesive residue after exposure to heat
- High performance silicone adhesive
- High strength backing provides superior resistance to puncture and tear
- Resistance to chemical attack

#### Applications:

- Mechanical Parts
- Protection of circuit board
- Insulation on Transformers, Motors and Coils
- Etching
- Fiber Optics Cables
- Solar Panels

Kapton® is a trademark of Dupont

Property	1 Mil	2 Mil	5 Mil
Color	Amber	Amber	Amber
Film Thickness	1 Mil (25µm)	2 Mil (50µm)	5 Mil (125µm)
Tensile Strength	33,550 psi (Mpa)	33,550 psi (Mpa)	33,550 psi (Mpa)
Elongation	72 %	82%	82%
Density	1.42 g/cc	1.42 g/cc	1.42 g/cc
Tear Strength, Initial	7.2 N(lbf)	16.3 N(lbf)	46.9 N(lbf)
Low temperature flex life	Pass	Pass	Pass
Dielectric Strength	7,700 V/mil	6,100 V/mil	3,900 V/mil
Temperature Resistance	260°C (500°F)	260°C (500°F)	260°C (500°F)
Resistance to acids, solvents	Excellent	Excellent	Excellent
Length	50 ft	50 ft	50 ft

Due to the variety of possible end-uses, it is ultimately the responsibility of the customer to determine a product's suitability for a particular application.