

# DuPont™ Kapton®

## THIN FILM OFFERINGS

### Thin packaging for capacitors and flex circuits

#### Introduction

DuPont™ Kapton® thin film offerings are polyimide films with multiple chemistries that are less than 25 microns in thickness. They include our HN, E, and EN types of Kapton® film.

The strength, toughness, flexibility, and wear resistance of Kapton® have proven reliable for a number of electrical as well as non-electrical applications. The versatility of Kapton® coupled with its outstanding physical, thermal and electrical properties allows for an expanding variety of applications.

#### Applications

DuPont™ Kapton® polyimide films are used in applications where size, light weight and thinness are a necessity. In capacitor and flex circuit packaging, Kapton® offers these properties in applications when high temperature operation is critical.

Specific applications include:

- capacitors
- electronic circuitry
- planar speakers
- transducers

#### Available Constructions

Kapton® thin film constructions are available in the following standard thicknesses and types:

##### Nominal Thickness

30EN	7.6 micron
50EN	12.5 micron
40HN	10.0 micron
50HN	12.5 micron
75 HN	19.0 micron
65E	16.5 micron

Available roll widths include up to 1320 mm (52") for HN and 1250 mm (49") for E and EN.

Kapton® types E and EN both exhibit low CTE, high modulus, low moisture absorption and the same basic properties as standard Kapton® HN.

#### Features and Benefits

When space and weight are a concern in design and finished product, Kapton® thin films offer advantages not seen with typical larger, heavier constructions:

- lower flexural stiffness than thicker grades of Kapton®
- high and low temperature resilience
- coatable
- metallizable
- allow higher surface area per unit weight than thicker grades of Kapton®
- most thoroughly tested and widely used substrate



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For more information on Kapton® polyimide film please contact your local representative:

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