



DuPont High Performance Materials

# Kapton® 120FMT616

polyimide film

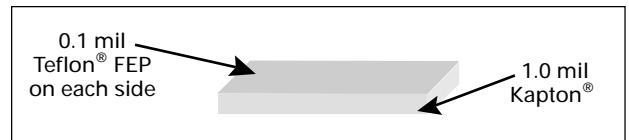
## Description/Features

- Thermally conductive Kapton® (3X more than standard Kapton™)
- Low moisture permeation
- High temperature resistance
- High tear strength
- Balanced construction (Teflon® on both sides)
- 1.0 mil (25 µm) thick thermally conductive Kapton® base film
- 0.1 mil (0.25 µm) thick Teflon® FEP coating on both sides

## Applications

- Heater insulation
- Flat panel heater substrate
- High temperature insulating wrap

Figure 1. Kapton® 120FMT616 polyimide film



## Typical Properties

Property	Units	Typical Value	Test Method
Elongation	%	66.7	ASTM D-882-91
Tensile Modulus	Kpsi	458.9	ASTM D-882-91
Tensile Strength	Kpsi	18.7	ASTM D-882-91, Method A
Yield Point at 3%	Kpsi	8	
Dielectric Constant		3.1	ASTM D-150-92
Dielectric Strength	Vmil	5200	ASTM D-149-91
Dissipation Factor		0.0015	ASTM D-150-92
Heat Seal Strength			
Teflon® to Teflon® at 350°C (662°F)	g/in	930	DuPont 5210
Teflon® to Copper at 350°C (662°F)	g/in	830	DuPont 5210
Nominal Thickness	mils	1.15	ASTM D-374, Method D
Tear Strength	lbf	2.3	ASTM D-1922-89
Moisture Absorption	%	1.3 (50% RH) 2.5 (98% RH)	ASTM D-570-81
Water Vapor Permeation	G/(m <sup>2</sup> 24 h)	17.5	ASTM D-96-92

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**Caution:** Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102.

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