



Flexible Insulation Kapton® HN Polyimide Film

GENERAL

Kapton® HN Polyimide 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, punched, formed or adhesive coated.

APPLICATIONS

Kapton® HN is recommended for applications that require an all-polyimide film with an excellent balance of properties over a wide range of temperatures. Typical applications are:

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| Electronic parts | Insulation tubing |
| Electrical insulation | Automotive diaphragms, sensors and manifolds |
| Pressure Sensitive tape | Etching |
| Fibre Optic cable | Shims |
| Insulation Blankets | |

PROPERTIES

Film Gauge	Unit	Typical Value	Test Condition	Typical Value	Test Condition
Dielectric Strength (ASTM D-149-91)			Dielectric Constant (ASTM D-150-92)		
kV / mm					
25	µM	303	60Hz	3.4	
50	µM	240	¼ in electrode	3.4	1kHz
75	µM	205	500 V / sec rise	3.5	
125	µM	154		3.5	
Dissipation Factor (ASTM D-150-92)			Volume Resistivity (ASTM D-257-91)		
Ohms			Centimetres		
25		0.0018	1kHz	1.5 x 10 ¹⁷	
50		0.0020		1.5 x 10 ¹⁷	
75		0.0020		1.4 x 10 ¹⁷	
125		0.0026		1.0 x 10 ¹⁷	