

## **KAPTON®**

DuPont High Performance Materials manufactures and sells a variety of high-quality plastic film products which are made under a quality system which is certified to ISO 9002 standards.

These specifications describe the values and tolerances for Kapton® film properties. Where necessary for thorough understanding, test methods and procedures have been included.

Any aspects of the specifications that require further interpretation or clarification should be discussed with representatives of DuPont High Performance Materials.

### **General Properties of Kapton®**

#### **Type HN Polyimide Film**

Property	Property Value--Film Thickness, mil (µm)						Method
	0.3	0.5	1	2	3	5	
	-7.6	(12.7)*	(25.4)*	(50.8)*	(76.2)*	(127)*	
Tensile Strength, psi (MPa) at 23°C (73°F). Machine Direction (MD) and Transverse Direction (TD), min.	16,000	20,000	24,000	24,000	24,000	24,000	ASTM D-882-9
Elongation, %, MD and TD, min.	25	35	40	45	50	50	Same as above
Shrinkage, %, MD and TD at 400°C (752°F), max.	4	4	2.5	2.5	2.5	2.5	MIL-P-46112B.
Moisture Absorption, %, max.	4	4	4	4	4	4	ASTM D-570-9
Dielectric Strength, AC V/mil (kV/mm), min.	3,000	3,000	6,000	5,000	4,500	3,000	ASTM D-149-9
	-118	-118	-236	-197	-177	-118	
Volume Resistivity, ohm-cm at 200°C (392°F), min.	1012	1012	1012	1012	1012	1012	ASTM D-257-9
Dielectric Constant at 1 kHz, max.	4	4	3.9	3.9	3.9	3.9	ASTM D-150-9
Dissipation Factor at 1 kHz, max.	0.007	0.005	0.004	0.004	0.004	0.004	Same as above

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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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