

Polyimide Film

Property

- * **Producing Craftsmanship: casting process**
- * **Polyimide film is a polymer material with imide group, excellent physical, chemical mechanical and electric stability in the range of temperatures from -270°C to 250°C**
- * **Excellent chemical resistance, radiation and ultraviolet resistance, and flame resistance**
- * **Allow space, weight saving**

Application

- * **Electric magnetic wire and cable coiling**
- * **Motor slot liners, transformer interlayer insulation, transformer (capacitor) interlayer insulation**
- * **The substrates of Flexible Printed Circuits Board(F-PCB)**
- * **Electric magnetic wire insulation**
- * **Lamination and coating adhesive, The backing materials of pressure-sensitive adhesive tape, F46 (FEP) tape**

Appearance and Specification

Appearance: Smooth and plain surface, without any needle cavities, tears ,bubbles and impurities, flat edge without damage

Color: Amber



Table 1 Specifications And Measure Tolerance

Type No.	Thickness Mil (μm)	Thickness Tolerance Mil (μm)		Width Range Mil (μm)		Unit Weight (g/m^2)		Area Factor (m^2/kg)
		Min.	Max.	Min.	Max.	Min.	Max.	
C0N-080	0.8(20.3)	0.68(17.2)	0.92(23.4)	3	1040	27	29	34.8
C0N-100	1(25.4)	0.9(22.9)	1.1(27.9)	3	1040	34	36	27.9
C0N-200	2(50.8)	1.8(45.7)	2.2(55.9)	5	1040	68	75	13.9
C0N-300	3(76.2)	2.7(68.6)	3.3(83.8)	5	1040	101	116	9.2
C0N-400	4(101.6)	3.7(94.0)	4.3(109.2)	6	630	133	144	6.9
C0N-500	5(127.0)	4.6(116.8)	5.4(137.2)	6	630	170	185	5.5
C0N-600	6(152.4)	5.5(139.7)	6.5(165.1)	6	520	204	216	4.6
C0N-700	7(177.8)	6.4(162.6)	7.6(193.0)	6	520	238	252	3.9
C0N-800	8(203.2)	7.4(188.0)	8.7(221.0)	10	520	272	288	3.4
C0N-900	9(228.6)	8.2(208.3)	9.8(248.9)	10	520	306	324	3.0
C0N-1000	10(254.0)	9.2(233.7)	10.8(274.3)	10	520	340	360	2.7

Table 2 Mechanical Properties

Thickness mil/(μm)		0.8 (20.3)	1 (25.4)	2 (50.8)	3 (76.2)	4 (101.6)	5 (127.0)	6 (152.4)	7 (177.8)	8 (203.2)	9 (228.6)	10 (254.0)	Test Method
Tensile Strength Psi(Mpa) (min)	MD	23000 (160)	23000 (160)	23000 (160)	23000 (160)	22000 (150)	20000 (140)	17000 (120)	17000 (120)	17000 (120)	17000 (110)	17000 (110)	JB2726-96
	TD	20000 140	20000 140	20000 140	20000 140	19000 130	17000 120	16000 110	16000 110	16000 110	14000 95	14000 95	JB2726-96
Elongation at Rupture (min)	%	60	60	60	70	70	70	70	70	70	70	70	JB2726-96
Shrinkage (max) %	150C	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	JB2726-96
	400C	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	

Table 3 Electric Properties

Thickness mil/(μm)		0.8 (20.3)	1 (25.4)	2 (50.8)	3 (76.2)	4 (101.6)	5 (127.0)	6 (152.4)	7 (177.8)	8 (203.2)	9 (228.6)	10 (254.0)	Test Method
Breakdown Strength 50Hz V/mil KV/mm	Average	4300 (170)	4300 (170)	4000 (160)	3800 (150)	3800 (150)	3800 (150)	3300 (130)	3300 (130)	3000 (120)	3000 (120)	3000 (120)	JB2726-96
	Individual	3500 (140)	3500 (140)	3500 (140)	3300 (130)	3000 (120)	3000 (120)	2500 (100)	2500 (100)	2300 (90)	2300 (90)	2300 (90)	JB2726-96
Volume Resistance at 200 °C, (min)	$\Omega\cdot\text{m}$	10^{10}	10^{10}	10^{10}	10^{10}	10^{10}	10^{10}	10^{10}	10^{10}	10^{10}	10^{10}	10^{10}	JB2726-96
Surface Resistivity at 200 °C, (min)	Ω	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	JB2726-96
Dielectric Constant at 50Hz (min)		3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	JB2726-96
Dielectric Dissipation Factor 50Hz (max)		0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	JB2726-96

Table 4 Specifications Of Supply And Package

Thickness Mil(μm)		0.8 (20.3)	1 (25.4)	2 (50.8)	3 (76.2)	4 (101.6)	5 (127.0)	6 (152.4)	7 (177.8)	8 (203.2)	9 (228.6)	10 (254.0)
Width	mm	3~1040	3~1040	5~1040	5~1040	6~630	6~630	6~520	6~520	10~520	10~520	10~520
Length	m	1500	1500	800	500	300	300	200	200	100	100	100
Core Size	Mm	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
	(inch)	3	3	3	3	3	3	3	3	3	3	3
Package	Inside: Polythene film.; Outside: Carton or Wooden case; Plastic Pallet; wrapping Film											
Storage	Sealed and in dry place, quality guaranteed for two years											