

产品编号: NY2170

Low CTE, High Thermal Reliability & High-Tg

**特点:**

- Tg170℃无铅兼容
- 优秀的剥离强度
- 低 Z-CTE 值
- 优秀的耐 CAF 性能
- UV Blocking 和 AOI 兼容
- 较低的吸水率
- 优秀的尺寸安定性

**FEATURES:**

- Tg 170°C Lead-free Compatible
- Excellent Peel Strength
- Low Z-axis CTE
- Excellent Anti-CAF Performance
- UV Blocking/AOI Compatible
- Lower Water Absorption
- Excellent Dimension Stability

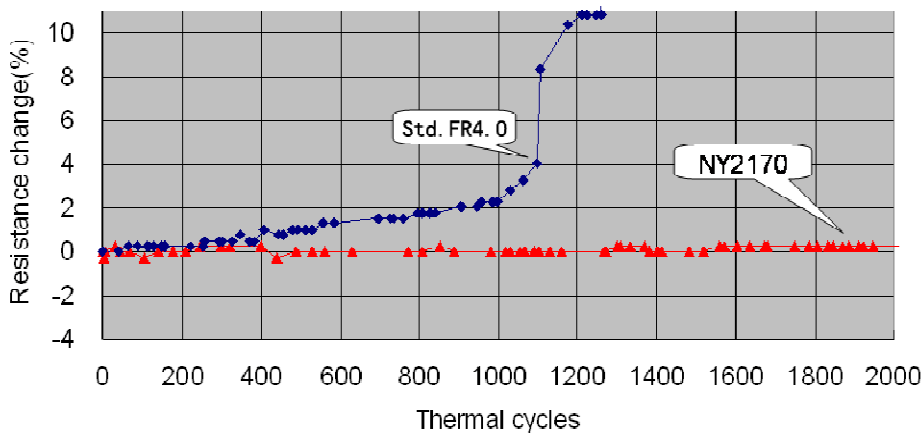
**应用领域:**

- 汽车电子
- 服务器
- 通讯
- 军工产品

**APPLICATIONS:**

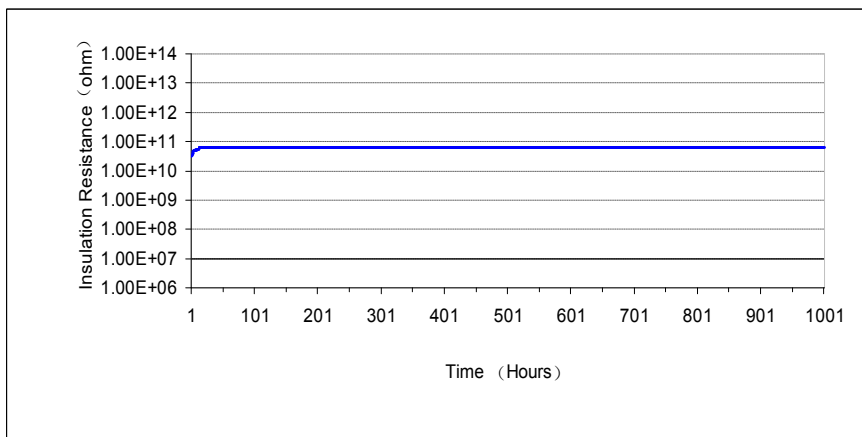
- Automotives
- Server
- Communications
- Militaries

优秀的耐热稳定性 Excellent Thermal Resistance



Test condition:  
 (IPC-TM-650 2.6.7.2)  
 -55°C × 15mins. <=> 140°C × 15mins, transfer time ≤2mins.  
 Test samples: PCB 18 layers, thickness 4.0mm hole diameter: 0.5mm pitch:1.0mm

优秀的耐 CAF 稳定性 Excellent Anti-CAF Performance



TEST ITEM	CONDITIONS	RESULTS
Wall-Wall (0.3mm)		>1000 hr
PA-PA (0.1/0.1mm)	SONY 6 Layer TV	>1000 hr
TH-PA (0.35mm)	85°C/85%RH 50V DC bias	>1000 hr
LA-LA		>1000 hr



**NY2170 采购信息 PURCHASING INFORMATION**

基板厚度 Thickness	厚度公差 Tolerance	铜箔 Copper foil	标准供应尺寸 Standard Size
0.03mm to 3.2mm	IPC4101 Class C/M	1/4 oz to 6 oz	915×1220mm (36"×48"), 1020×1220mm (40"×48"), 1070×1220mm (42"×48"), 1830×1220mm (72"×48"), 2040×1220mm (80"×48"), 2140×1220mm (84"×48")

\*其它尺寸和厚度亦可供应 Other sheet size and thickness could be available upon request.

半固化片 Prepreg	标准供应尺寸 Standard Size	常用玻纤布型号 Normal Glass Type
PP	49.6" ×150 m 49.6" ×300 m	1652, 1506, 7628 1037, 106, 1067, 1078, 1080, 1086, 2113, 2313, 3313, 2116

\*其它裁片尺寸和卷长度亦可供应 Other sheet size and roll length could be available upon request.

**半固化片产品规格表 Specification Sheet for Prepreg**

NY2170P 半固化片 NY2170P Prepreg	单位 Units	产品规格 Specification	典型值 Typical Value	测试方法 Test Method
1. 玻纤布 Reinforcement	---	As per IPC-4412 or AABUS		
2. 树脂含量 Resin Content	%	±2	±2	2.3.16.1C By treated weight
3. 胶化时间 Gel Time	sec	±20	±20	2.3.18A
4. 树脂流量 Resin Flow	%	±5	±5	2.3.17D
5. 挥发份含量 Volatile content	%	<1.5	<1.5	2.3.19C
6. 储存期 Shelf Life (条件1Condition 1 / 条件2Condition 2)	Days	180/90	180/90	AABUS
7. 燃烧性 Flammability (压合后as laminated)	rating	V-0	V-0	UL94
8. 其它 Other	---	As per IPC-4101 or AABUS		

\*AABUS = 供需双方商定 As agreed upon between user and supplier.

\*储存期 Shelf Life (条件1Condition 1 / Temp.: <5°C, 条件2Condition 2/Temp.: <23°C R.H.: <50%).



**NY2170基板产品规格表 Specification Sheet for Laminate**

NY2170覆铜箔板 NY2170 Laminate	单位Units	产品规格 Specification		典型值 Typical Value	测试方法 Test Method
	Metric(English)	<0.50mm	≧0.50mm	1.60mm CCL	IPC-TM-650
1. 抗剥强度 Peel Strength (HTE) A. 1/2 盎司及以下铜箔 17 micron copper B. 1盎司及以上铜箔 35 micron copper and above	N/mm(lb/inch), minimum	0.70 (4.0) 0.79 (4.5)	0.70 (4.0) 1.05 (6.0)	1.42 (1oz)	2.4.8 2.4.8.2 2.4.8.3
2. 体积电阻 Volume Resistivity, A. 恒温恒湿 C-96/35/90 B. 耐湿后 After moisture resistance C. 高温下 At elevated temperature E-24/125	MΩ-cm, minimum	10 <sup>6</sup> --- 10 <sup>3</sup>	--- 10 <sup>4</sup> 10 <sup>3</sup>	--- 2.8×10 <sup>8</sup> 1.0×10 <sup>7</sup>	2.5.17.1
3. 表面电阻 Surface Resistivity, A. 恒温恒湿 C-96/35/90 B. 耐湿后 After moisture resistance C. 高温下 At elevated temperature E-24/125	MΩ, minimum	10 <sup>4</sup> --- 10 <sup>3</sup>	--- 10 <sup>4</sup> 10 <sup>3</sup>	--- 2.5×10 <sup>7</sup> 3.5×10 <sup>6</sup>	2.5.17.1
4. 吸水率 Moisture Absorption	% maximum	---	0.5	0.10	2.6.2.1
5. 击穿电压 Dielectric Breakdown	kV minimum	---	40	58	2.5.6
6. 介电常数 Permittivity at 1 MHz, (Laminate & Prepreg as laminated) @1MHz @1GHz	--- maximum	5.4	5.4	4.60 4.50	2.5.5.9
7. 介质损耗 Loss Tangent at 1 MHz, (Laminate & Prepreg as laminated) @1MHz @1GHz	--- maximum	0.035	0.035	0.015 0.016	2.5.5.9
8. 弯曲强度 Flexural Strength, A. 纵向 Length direction B. 横向 Cross direction	N/mm <sup>2</sup> , minimum	---	415 345	580 460	2.4.4
9. 高温弯曲强度 Flexural Strength at Elevated Temperature, length direction,	N/mm <sup>2</sup> minimum	---	---	---	2.4.4.1
10. 耐电弧性 Arc Resistance	S minimum	60	60	180	2.5.1
11. 热应力冲击 Thermal Stress A. 未蚀刻 Unetched B. 蚀刻 Etched	10 sec at 288℃	Pass Visual Pass Visual	Pass Visual Pass Visual	Pass Pass	2.4.13.1
12. 电气强度 Electric Strength (Laminate & Prepreg as laminated)	kV/mm minimum	30	---	---	2.5.6.2
13. 燃烧性 Flammability (Laminate & Prepreg as laminated)	rating	V-0	V-0	V-0	UL94
14. 玻璃态转化温度 Glass Transition Temperature	℃	---	≥170	175	2.4.24 2.4.25
15. 热分解温度 Decomposition Temperature	℃	---	≥340	350	5% wt loss
16. 膨胀系数 Z-Axis CTE A. Alpha 1 B. Alpha 2 C. 50 to 260 ℃	PPM/℃ PPM/℃ %	---	≤60 ≤300 ≤3.0	35 235 2.8	2.4.24
17. 耐热性(除去铜箔) Thermal Resistance (Copper removed) A.T260 B.T288 C.T300	Minutes Minutes Minutes	---	≥30 ≥15 ≥2	>60 45 10	2.4.24.1
18. 耐CAF性能 CAF Resistance	Pass/Fail	---	AABUS	Pass	2.6.25

\*AABUS = 供需双方商定 As agreed upon between user and supplier.

IPC-4101 Type Designation : /98, /99, /101, /126