

品质承认书 Quality specification

客户 Customer:		
供应商: 广东东溢新材料科技有限公司		
Supplier: GUANGDONG DONGYI HIGH-TECH MATERIAL SCIENCE&TECHNOLOGY CO., LTD.		
产品类型 Product type: 无卤有胶补强板 PI Base Halogen Free stiffener		
材料品名 Material name: DTIA 系列		
编号 No: T61 版本 Ver: C9		
制作日期 Date of production: 2024/3/15		
客户确认 Customer:		
采购 Purchase:	品质 Quality:	工程 Engineering:
职务 Position:	职务 Position:	职务 Position:
备注 Note: (盖章 Seal)		
广东东溢新材料科技有限公司 GUANGDONG DONGYI HIGH-TECH MATERIAL SCIENCE&TECHNOLOGY CO., LTD.		
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职务 Position: 总监	职务 Position: 经理	职务 Position: 经理
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产品名称 Product name

序号 No	东溢型号 DY models	PI 厚度 (mil)	胶厚 (um)	包装 Packing
1	DTIA125LB1 (A)	1	25	250mm*200m
2	DTIA125LB2 (A)	1	25	500mm*100m
3	DTIA210NB1 (A)	2	10	250mm*200m
4	DTIA225LB1 (A)	2	25	250mm*100m
5	DTIA225NB1 (A)	2	25	250mm*100m
6	DTIA325LB1	3	25	250mm*100m
7	DTIA325LB1 (A)	3	25	250mm*100m
8	DTIA425LB1	4	25	250mm*100m
9	DTIA525LB1	5	25	250mm*100m
10	DTIA540LB1	5	40	250mm*100m
11	DTIA625LB1	6	25	250mm*50m
12	DTIA725LB1	7	25	250mm*50m
13	DTIA740LB1	7	40	250mm*50m
14	DTIA760LB1	7	60	250mm*50m
15	DTIA725LB1 (B)	7	25	250mm*50m
16	DTIA725LB2 (B)	7	25	500mm*100m
17	DTIA825LB1	8	25	250mm*50m
18	DTIA825LB1 (A)	8	25	250mm*50m
19	DTIA925LB1	9	25	250mm*50m
20	DTIA925LB1 (B)	9	25	250mm*50m
21	DTIA925PB1 (B)	9	25	250mm*50m
22	DTIA925LB1 (C)	9	25	250mm*50m
23	DTIA325LG1	3	25	250mm*100m
24	DTIA425LG1	4	25	250mm*100m
25	DTIA525LG1	5	25	250mm*50m
26	DTIA625LG1	6	25	250mm*50m
27	DTIA725LG1	7	25	250mm*50m
28	DTIA825LG1	8	25	250mm*50m
29	DTIA925LG1	9	25	250mm*50m
30	DTIA925LG1 (B)	9	25	250mm*50m
31	DTIA225UB1 (A)	2	25	250mm*100m
32	DTIA325UB1	3	25	250mm*100m
33	DTIA325UB1 (A)	3	25	250mm*100m
34	DTIA425UB1	4	25	250mm*100m
35	DTIA525UB1	5	25	250mm*100m
36	DTIA625UB1	6	25	250mm*50m
37	DTIA725UB1	7	25	250mm*50m

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38	DTIA725UB1 (B)	7	25	250mm*50m
39	DTIA740UB1	7	40	250mm*50m
40	DTIA825UB1	8	25	250mm*50m
41	DTIA925UB1 (B)	9	25	250mm*50m
42	DTIA125NB1 (A)	1	25	250mm*100m
43	DTIA225NB1 (A)	2	25	250mm*100m
44	DTIA325NB1	3	25	250mm*100m
45	DTIA425NB1	4	25	250mm*100m
46	DTIA525NB1	5	25	250mm*100m
47	DTIA625NB1	6	25	250mm*50m
48	DTIA725NB1	7	25	250mm*50m
49	DTIA825NB1	8	25	250mm*50m
50	DTIA925NB1 (B)	9	25	250mm*50m
51	DTIAA25NB1 (C)	10	25	250mm*50m
52	DTIA825LR1	8	25	250mm*50m
53	DTIAB25LB1	11	25	250mm*50m
54	DTIA725LR1	7	25	250mm*50m
55	DTIA925LR1	9	25	250mm*50m
56	DTIAA25LB1	10	25	250mm*50m
57	DTIAA25LB1 (B)	10	25	250mm*50m
58	DTIAA25LB1 (C)	10	25	250mm*50m
59	DTIAB25LB1	10	25	250mm*50m
60	DTIAC25LB1	12	25	250mm*50m
61	DTIA135LB1	1	35	250mm*200m
62	DTIA235LB1 (A)	2	35	250mm*100m
63	DTIA335LB1	3	35	250mm*100m
64	DTIA335LB1 (A)	3	35	250mm*100m
65	DTIA435LB1	4	35	250mm*100m
66	DTIA535LB1	5	35	250mm*100m
67	DTIA635LB1	6	35	250mm*50m
68	DTIA735LB1	7	35	250mm*50m
69	DTIA735LB1 (B)	7	35	250mm*50m
70	DTIA835LB1	8	35	250mm*50m
71	DTIA935LB1	9	35	250mm*50m
72	DTIA935LB1 (B)	9	35	250mm*50m
73	DTIAA35LB1	10	35	250mm*50m
74	DTIA235UB1 (A)	2	35	250mm*100m
75	DTIA335UB1	3	35	250mm*100m
76	DTIA435UB1	4	35	250mm*100m
77	DTIA535UB1	5	35	250mm*100m
78	DTIA635UB1	6	35	250mm*50m
79	DTIA735UB1 (B)	7	35	250mm*50m

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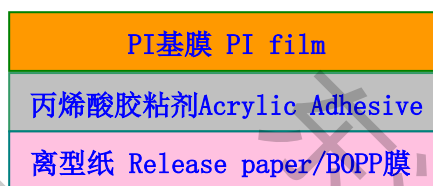
80	DTIA835UB1	8	35	250mm*50m
81	DTIA935UB1 (B)	9	35	250mm*50m
82	DTIA235NB1 (A)	2	35	250mm*100m
83	DTIA335NB1	3	35	250mm*100m
84	DTIA435NB1	4	35	250mm*100m
85	DTIA535NB1	5	35	250mm*100m
86	DTIA635NB1	6	35	250mm*50m
89	DTIA735NB1 (B)	7	35	250mm*50m
90	DTIA835NB1	8	35	250mm*50m
91	DTIA935NB1 (B)	9	35	250mm*50m
92	DTIAA35NB1 (C)	10	35	250mm*50m
93	DTIAB25NB1	11	25	250mm*50m
94	DTIA840LB1	8	40	250mm*50m
95	DTIA940LB1	9	40	250mm*50m
96	DTIA940LB1 (B)	9	40	250mm*50m
97	DTIA715RB1-1	7	15	250mm*50m
98	DTIA815RB1-1	8	15	250mm*50m
99	DTIA715LB1 (B) -1	7	15	250mm*50m
100	DTIA815LB1 (B) -1	8	15	250mm*50m
101	DTIA340LB1	3	40	250mm*100m
102	DTIA530LB1	5	30	250mm*100m
103	DTIA730LB1	7	30	250mm*50m
104	DTIA730LB1 (B)	7	30	250mm*50m
105	DTIA325LP1	3	25	250mm*100m
106	DTIA425LP1	4	25	250mm*100m
107	DTIA525LP1	5	25	250mm*100m
108	DTIA625LP1	6	25	250mm*50m
109	DTIA725LP1	7	25	250mm*50m
110	DTIA725LP1 (B)	7	25	250mm*50m
111	DTIA825LP1	8	25	250mm*50m
112	DTIA925LP1	9	25	250mm*50m
113	DTIAA25LP1	10	25	250mm*50m
114	DTIAA25LP1 (C)	10	25	250mm*50m
115	DTIAC50LB1	12	50	250mm*50m
116	DTIA425UP1	4	25	250mm*100m
117	DTIA525UP1	5	25	250mm*100m
118	DTIA625UP1	6	25	250mm*50m
119	DTIA725UP1 (B)	7	25	250mm*50m
120	DTIA825UP1	8	25	250mm*50m
121	DTIA925UP1	9	25	250mm*50m
122	DTIA145RB1 (A)	1	45	250mm*200m
123	DTIA250RB1 (A)	2	50	250mm*200m

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● 产品特性 Product Features

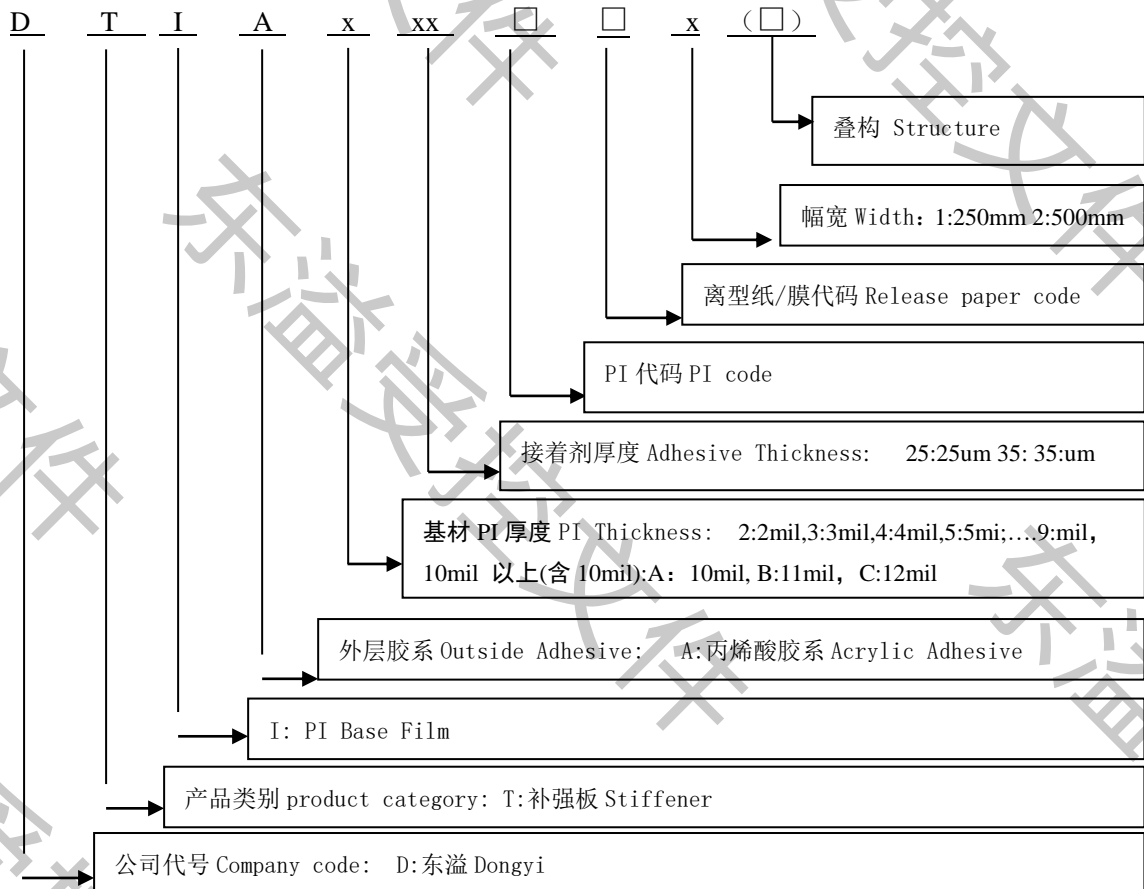
- 优秀的耐热性能 Outstanding thermal resistance
- 优异的平坦性 Excellent flatness
- 优良的耐化学性 Good chemical resistance
- 优异的电性能 Excellent electrical performance and insulation performance
- 无卤无锑，符合 ROHS 环保指令 Halogen & antimony free, ROHS compliant

● 产品结构 Product Structure



● 编码原则 Product coding principle

注：□：表示英文字母 English alphabet；x：阿拉伯数字 Arabic numeral.



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● 物性指标 General Properties

序号 Item	性能项目 Test Item	单位 Unit	测试条件 Test Condition	标准 Standard	测试方法 Test Method
1	厚度 Thickness	um	厚度≤100um	±5um	东溢规范 Dongyi Method
			厚度>100um	±10%	
2	幅宽 Width	mm	A	标准值 +2/-0mm	东溢规范 Dongyi Method
3	剥离强度 Peel Strength	kgf/cm	A	≥1.0	IPC-TM-650-2.4.9
4	焊锡耐热性 Solder Resistance	---	265℃/10S	无分层、起泡 No delamination, sparkling	IPC-TM-650-2.4.13
5	翘曲 Curl	cm	A	≤5	IPC-TM-650-2.3.17.1
6	表面电阻 Surface Resistance	Ω	C-96/23/65	≥10 ¹⁰	IPC-TM-650-2.5.17
7	体积电阻 Volume Resistance	Ω.cm	C-96/23/65	≥10 ¹²	IPC-TM-650-2.5.17
8	介电常数 Dielectric Constant	---	C-24/23/50 (10MHz)	≤4.0	IPC-TM-650-2.5.5.3
9	消耗因素 Dissipation Factor	---	C-24/23/50 (10MHz)	≤0.04	IPC-TM-650-2.5.5.3

注 Note : A 代表常态 "A" Means normal.

● 外观管控 Appearance requirement

异常类型 Exception classes	异常大小 Abnormal size	允许个数 Allowed value (250*400mm)
杂质 Impurity	0.1~0.5mm	≤8 个 dots
垫伤 Pad injury	0.5~1mm	≤1 个 dots
气泡 Bubble	≥1mm	不允许 Not allowed
接头 Joint		≤3 个

注 Note: 产品边缘 3mm 以内异常, 不作管控要求 From the product within 3 mm of the edge of exception, don't do control requirements.

● 储存 Storage

丙烯酸有胶补强板: 温度<30℃、湿度<70%RH、真空包装、无腐蚀性气体

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的室内，制造日期后保存 6 个月。Temperature <30℃, humidity < 70% RH, airproof vacuumed packaging, no corrosive gas chamber for 6 months.

● 包装 Packing

1. 每一卷成品用 PVC 卷取。每批出货的每个规格提供一份品质检验报告。 Each volume of finished PVC tube winding.
2. 每一卷成品用纸箱包装，避免在运输上碰撞。产品采用防潮、干燥、密封包装，成卷装入纸箱。 Each volume of finished carton packaging, in the transport collision avoidance. Products using moisture proof, dry, sealed packaging, rolls into cartons.
3. 包箱标签 Package box label

 广东东溢新材料科技有限公司 GUANGDONG DONGYI HIGH-TECH MATERIAL SCIENCE&TECHNOLOGY CO., LTD.	
补强板	
订单号 Order:	
型号 Type:	
宽度 Width: mm	
长度 Length: m	
面积 Area: m ²	
接头 Splice: m	
批号 Lot.NO:	
生产日期 Production date:	
保质期至 Shelf life:	
储存环境 Storage :<30℃, <70%RH	

无卤标签 Halogen free label:
tag:



环保标签 Green label:

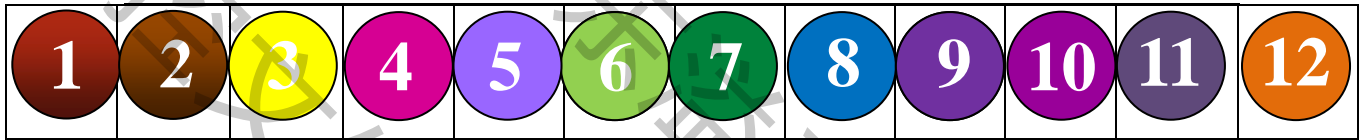


合格标签 Inspection



月份标签 Month label:

一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May.	六月 June.	七月 July.	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.
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● 装运 Shipment

每批提供一份质量检验报告，如下表（报告格式仅供参考）：Each shipment of each specification provides a quality inspection report. The following table (Report format for reference only):

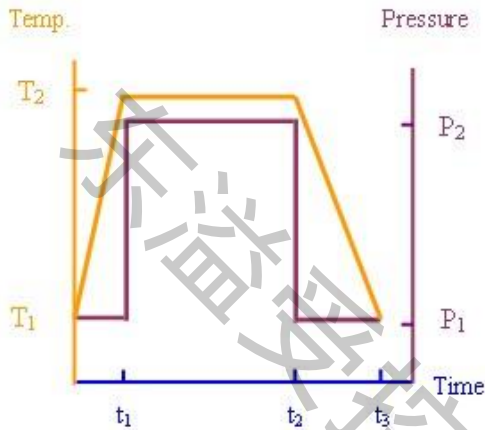
 广东东溢新材料科技有限公司 GUANGDONG DONGYI HIGH-TECH MATERIAL SCIENCE&TECHNOLOGY CO., LTD.			
有胶补强板出厂检验报告			编号: JL-Q-02-004-12
日期 (Date):		客户 (customer):	
品名 (Material spec)			
批号 (Lot No.)			
补强板厚度 (Stiffener thickness) Unit: μm			
接着剂厚度 (Adhesive thickness) Unit: μm			
保存期限 (Shelf Life)		<30℃, <70%RH保存6个月 (Below 30℃, 70%RH for 6months)	
检验项目 (Test item)	检验方法 (Test method)	品质标准 (Quality Spec)	测试结果 (Test Result)
总厚度 (Total thickness)	东溢规范 (Unit: μm)		
幅宽 (Width)	东溢规范 (Unit: mm)		
剥离强度 (Peel Strength)	IPC-TM-650 2.4.9 (Unit: kgf/cm)		
卷曲 (Curl)	TD MD IPC-TM-650 2.4.22 (Unit: cm)		
焊锡耐热性 (Solder Float Resistance) 280℃/10sec	IPC-TM-650 2.4.13	无分层起泡 (No Blistering or Delamination)	
产品判定结果			OK
备注:			
1. 以上测试数据仅供参考。 2. 上述产品不含 [RoHS] 所规定的禁用物质。 3. 如产品被放置在低温下储存环境 (尤其是冬季) 建议客户在使用前将产品静置回暖直至产品温度回升至室温 (20-30℃) 后方可使用, 以确保最佳产品使用特性, 同时也应避免放置在阳光直接照射及高温环境下。 4. 在有胶补强板贴合前, 如接触界面做表面清洁, 亦须保证接触界面干燥及不残留溶剂 (如酸、油污等)。 5. 压合后的产品建议使用千层架烘烤, 如无千层架建议叠层张数不超过20PNL, 以避免叠层太多而影响产品。			
地址: 广东省中山市南区昌盛路22号 电话: 0760-23338784 传真: 0760-23336558 邮编: 528455			
审核 (APPROVED BY):		检验员 (CHECKED BY):	

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● 建议压制工艺 Recommendations for pressing process

A、传统压合方式 *Traditional Lamination Lamination*

温度 Temp 压力 Pressure

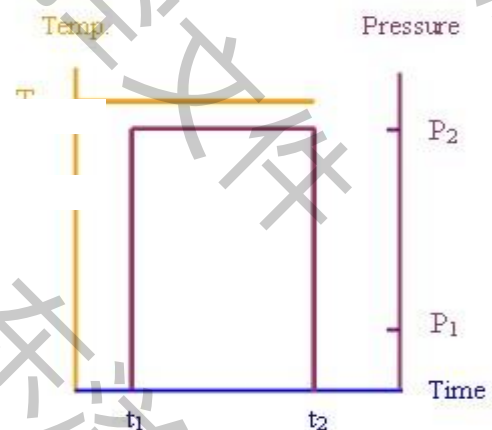


传压工艺 Traditional pressing:

第一段: 温度 Temp T1 40°C~160-170°C
 Stage I 压力 Pressure p1 10~20kgf/cm²
 时间 Time t1 30~50min
 第二段: 温度 Temp T2 160~170°C
 Stage II 压力 Pressure p2 25~40kgf/cm²
 时间 Time t1~t2 40~80 min
 第三段: 温度 Temp T2~T1
 Stage III 压力 Pressure p1 10~20kgf/cm²
 时间 Time t2~t3 30~60 min

B、快速压合方式 *Fast Lamination*

温度 Temp 压力 Pressure



快压工艺 The quick pressing:

第一段: 温度 Temp: 180±5°C
 Stage I 压力 Pressure: 0Kgf/cm²
 时间 Time: 5~20 Sec
 第二段: 温度 Temp: 180°C
 Stage II 压力 Pressure: 100~120Kgf/cm²
 时间 Time: 120~150Sec
 固化 Curing Process:
 温度 Temp: 160~170°C;
 时间 Time: 60~120min.

注 Note: 以上建议压合参数, 鉴于各厂家机台及生产工艺差异, 故仅供参考。
 Customers can according to their own technology, equipment conditions and performance requirements, through the test to determine the appropriate operating conditions.

● 使用注意事项 Matters needing attention

1. 如产品被放置在低于 10 度以下储存环境, 建议客户在使用前将产品静置 4 小时以上回暖直至产品温度回升至室温温度 (20--30°C) 后方才使用、以确保最

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佳产品使用特性，同时也应避免放置在阳光直接照射及高温环境下。if product was placed in under Temperature 10°C for storage, the product should be placed in the room temperature 20~30°C more than 4 hours before using, in order to make the product temperature up to 20~30°C, to ensure the best product features. At the same time should also avoid placing it in direct sunlight and high temperature environment.

2. 在有胶补强板贴合前，如接触界面做表面清洁，亦须保证接触界面干燥及不残留溶剂(如酸碱、油污等)。With adhesive stiffener before laminating, such as the contact interface to do surface cleaning, also need to ensure that the contact interface is dry and not residual solvents (such as acid and alkali, oil, etc.).

3. 压合后的产品建议使用千层架烘烤，如无千层架建议叠层张数不超过 20PNL，以避免叠层太多而影响产品固化效果。Pressing products recommend the use of multi-layer frame, such as no proposal for multi-layer frame lamination number no more than 20 PNL, to avoid the laminated too much and influence product curing effect.

4. 此规格书中表述的所有测试数据以及建议之工艺条件和参数仅供参考，产品使用方需要按照自身实际生产设备及产品要求等因素自行确认最优生产工艺及作业参数。特此声明！

Hereby declared that all test data and recommended process conditions and operating parameters presented in this technical datasheet are for informational purposes only. Product users need to confirm the optimal production process and operating parameters according to their actual production equipment and product requirements.

● 常规物性测试方法 Properties Test Method

剥离强度检验方法 Peel Test Method

1、范围 The range:

本检验方法适用东溢公司有胶补强产品剥离强度之量测。The test method for stiffener measurement of peel strength.

2、检测仪器 Testing instruments:

剥离强度测试仪。Peel strength testing instruments.

3、样品制作 The sample:

- a) 将补强板裁切成10cm长, 0.3-0.5cm宽试片, 有胶一面与DSIF1201 单面基材 (ED 铜) 铜箔基板的PI面贴合。The stiffener is cut into 10cm long and 0.3-0.5cm wide, and the adhesive side is bonded to the PI

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surface of the DSIF1201 (ED copper).

b) 快压: 温度180℃、压力120kgf/cm²、预热时间10sec、压着时间120sec。Quick pressure: temperature 180℃, pressure 120 kgf/cm², Time10 s, 120 s;

c) 熟化: 160℃×60min。Cure: 160 °C x 60 min.

4、样品测试 The sample test:

a) 取熟化过后之样片, 烧开使得补强板与铜箔的PI面分开然后用手撕开约3cm。Take samples after curing, cutting 1 cm width to boil make PI is separated from copper foil.

b) 把覆铜面用双面胶固定在测试仪的滚轮上, 用夹具夹住补强板的一端, 与滚轮垂直, 然后匀速上升, 每隔1秒, 按打印机一次, 共打印出15~30个数据即可, 取打印数据的平均值作为此条样品的剥离强度值。The samples FCCL surface with double-sided adhesive fixed on the roller tester, fixture for clipping the copper foil at one end, and vertical roller, and then rising at a constant speed, every 1 second, print 1 data, print out together 15 ~ 30 data, take the print data as the average of the peel strength value of this sample.

c) 注意事项: 剥离机上升速度: 50mm/min, 剥离距离: 10~20mm; 样品与滚轮垂直。Note: machine rise: 50 mm/min, stripping distance: 10 ~ 20 mm; Pull copper foil, samples and vertical roller.

5、公式计算 Formula to calculate:

$$\text{剥离强度 Peel strength} = \frac{\text{拉力 Tensile force (kgf)}}{\text{宽度 The width (cm)}}$$

注: 以上测试方法参考 IPC-TM-650, Method 2.4.9; Note: The above specification reference IPC - TM - 650, Method 2.4.9.

焊锡耐热性检验方法 Solder Resistance Test Method

1. 范围 The range:

本检验方法适用于东溢公司补强板产品焊锡耐热性之量测。The test method for stiffener measurement of solder resistance.

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2. 检测设备 Testing instruments:

锡炉。Wave solder

3. 样品制作 The sample:

a) 将样片切成 10cm×10cm 大小，与大小一致的 DSIF1201 单面基材 (ED 铜)PI 面贴合。The stiffener is cut into 10cm×10cm, and the adhesive side is bonded to the PI surface of the DSIF1201 (ED copper).

b) 将样品平放在铜箔PI面上放入100℃过塑机过一遍。The sample placed into 100 °C in PI surface of copper foil presses over.

c) 快压: 温度 180±5℃、压力 120kgf/cm²(表压)、预热 10s、成型 120s; 熟化: 160 °C × 60min; Quick pressure: temperature 180°C, pressure 100 kgf/cm², Time 10 s, 120 s; Cure: 160 °C x 60 min.

d) 将固化好的样品裁成 5±1cm × 5±1cm 三块。The cured samples were cut into 5±1cm × 5±1cm three block.

4. 样品测试 The sample test:

用镊子夹住样品浸入恒温焊锡液中，焊锡液温度 265±5℃，每个样品浸锡 10S，然后拿出观察其表面是否有分层或起泡。Using tweezers samples immersed in a constant temperature liquid solder, solder liquid temperature 265±5°C, each sample dipping 10S, then take out to observe the surface whether delamination or blistering.

注：以上参考 IPC-TM-650, Method 2.4.13。 Note: The above specification reference IPC - TM - 650, Method 2.4.13.