

**PRODUCT SPECIFICATION****产品规格书**

客户名称:

产品类型: 补强板

产品品名: KTS-PIXXXX (X)

客户承认	品质	签章		工程	签章			签章	
		日期			日期			日期	
科泰顺	业务	签章		品质	签章			签章	
		日期			日期			日期	

修 订 履 历			
版本号	修订日期	修订原因	修订内容
A-0	2013-04-07	新制定	新制定
	以下空白		

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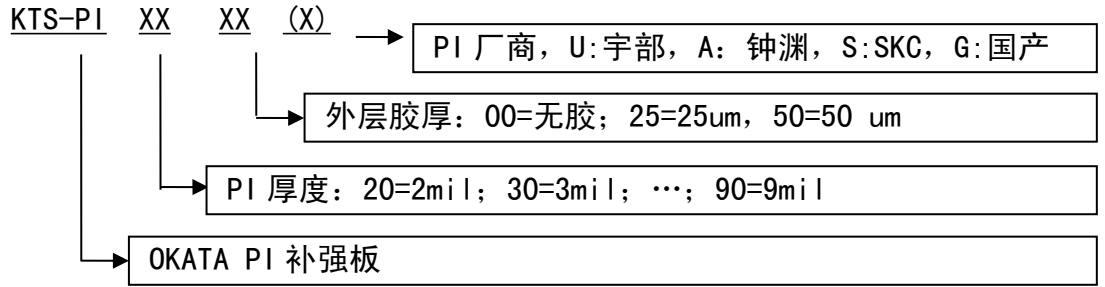
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### 1. 适用范围

本规格书适用于软性印制电路板用 OKT-PIXXXX (X) 规格的补强板，规格书对其外观、性能、尺寸、保证期限、标签、包装及使用注意事项等作出相关规定。

### 2. 产品品名

补强板产品品名：KTS-PIXXXX (X)



### 3. 材料组成

有胶补强板：PI、胶层、离型纸组成。



无胶补强板：PI、胶层组成或 PI 组成。

### 4. 产品外观

补强板为 PI 色卷状，批次间由于 PI 本身色差可能会存在颜色差异。

### 5. 厚度及公差

厚度规格 (μm)	公差 (μm)
PI 标准厚度+胶层厚度	±10%

### 6. 产品性能

检验项目	实验条件	单位	品质标准	测试方法	检测频率
剥离强度	90° 剥离强度	Kgf/cm	≥1.0	IPC-TM-650-2.4.9	D
浸焊性 (外层带胶的)	265°C/10 秒	—	无分层、起泡	IPC-TM-650-2.4.13	D
浸焊性 (外层不带胶的)	288°C/10 秒	—	无分层、起泡	IPC-TM-650-2.4.13	D
转移性	110°C-130°C 过塑机转移	—	110°C-130°C可转移	----	D
耐化性 (剥离强度下降率)	2mol/LNaOH	%	≤20	IPC-TM-650 2.3.2	M
	2mol/LHCl	%	≤20		M
	IPA	%	≤20		M

产品符合 ROHS、SVHC 要求。

注：D 为每批次检验，M 为每月检验

### 7. 压制、固化工艺条件

#### 7.1 传统压合

压力:12-14MPa 温度:165~170℃ 保温保压时间:60 分钟。

### 7.2 快压压合

压力:12-14Mpa 温度:175~180℃ 预压时间:10 秒 压合时间:120~150 秒

快压后烘箱固化温度:165~170℃ 快压后烘箱固化时间:60 分钟。

注意: 用户可根据自己的设备、工艺及性能要求, 通过试验确定合适的压制、固化条件。

### 8. 产品尺寸

宽度及长度的允差如下所示:

项目	尺寸标准	
宽度 (mm)	250±0.5	或依客户要求
长度 (m)	200 (+1/-0)	
接头数目	4 个以下	

### 9. 保证期限

本产品的保证期限如下所示:

包装	储存条件	储存期限
防潮、干燥、密封包装	包装良好、室内温度 10-30℃、相对湿度不大于 65%、避免腐蚀、潮湿、阳光直照环境	6 个月

### 10. 产品标签

科泰顺材料产品标签标注以下内容:

- (1) 制造商
- (2) 品名
- (3) 型号
- (4) 规格
- (5) 保质期
- (6) 面积
- (7) 生产日期
- (8) 保存条件
- (9) 生产批号
- (10) 联系方式
- (11) 地址

### 11. 出货报告书

每批交货的每个规格提供一份质量检验报告.

# 检验报告单

深圳市科泰顺科技有限公司

产品名称: 聚酰亚胺 PI 补强片

产品型号: KTS-PI5025(U)

规格厚度: PI=0.125mm,AD=25um

生产日期: 2013.3.27

包装规格: 250mm×50M

出厂日期: 2013.3.26

特性		标准值	检测值	测试方法
产品结构		PI=125	—	—
		AD=25	—	—
厚度(μm)		150±10	Max:158μm Min:142μm	千分尺
剥离强度 (kgf/cm) 90℃	常温状态	10N/cm	10	IPC-TM650 2.4.9
	260℃	10N/cm	Pass	
焊锡耐热性(外层带胶的)		265℃×10S	265℃×10S	IPC-TM650 2.4.13
焊锡耐热性(外层不带胶的)		288℃×10S	288℃×10S	IPC-TM650 2.4.13
溢胶量 (mm)		< 0.15	< 0.09	IPC-TM650 2.3.17.1
尺寸安定性 (%)	MD	±0.1	Pass	IPC-TM-650 2.2.4
	TD	±0.1	Pass	
耐溶剂性	三氯甲烷	无分层,无气泡	Pass	IPC-TM650 2.5.17
	丁酮			
保存期限		常温下, 保质期 6 个月		

检验结果:

**合格**

检验人员: 柳虹

## 12. 注意事项

- a. 因其在直射日光下容易变质, 故保管时请避免日光直射;
- b. 请不要在高温潮湿的地方, 或含有酸, 碱蒸汽的地方处理, 否则会引起产品物性变化;
- c. 不可直立放置;
- d. 打开包装的物品, 请重新包装好, 或尽早用完.
- e. 边料等废弃物, 请作为工业废弃物按规定处理, 请不要在未经许可的情况下烧掉或作其它处理.

**PRODUCT SPECIFICATION**

Customer Name:

Product type: PI Stiffener

Product name: OKT-PIXXX(X)

Customer signature	Quality dep	Signature		Engineer dep	signature			signature	
		Date:			Date:			Date:	
Supplier signature	Sales dep.	Signature		Quality Dep	Signature			Signature	
		Date:			Date:			Date:	



Establishment and revision history			
Version No.	Establishment and revision date	Reason for revision	Revision details
A-0	Apr. 07, 2013	Newly established	Newly established
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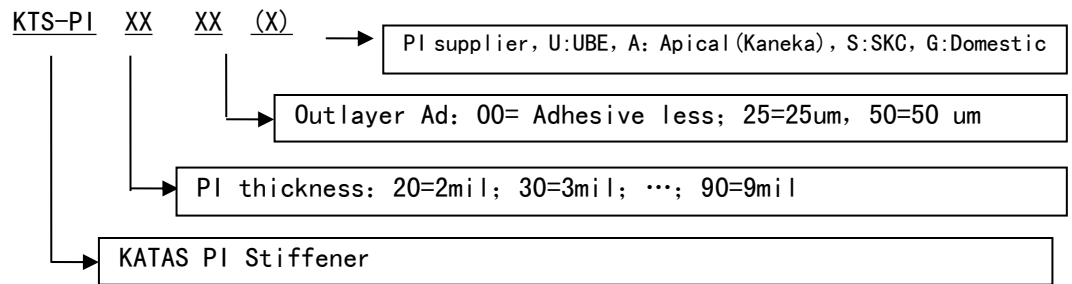
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## 1. Scope of application

This specification shall be applied to OKT-PIXXX(X) Polyimide Stiffener. This specifications make rules for its appearance, performance, size, guarantee period, labels, packaging and use of note and et.

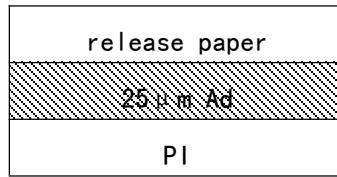
## 2. Products name

PI stiffener name: OKT-PIXXX(X)



### 3. Products composition

PI stiffener with outlayer Ad: PI ( or PI composition)、Ad、release paper



PI Stiffener without outlayer Ad: PI ( or PI composition)、Ad

### 4. Products appearance

PI Stiffener is a roll, and its colour is the same as PI. PI stiffener may have colour differences between batches, due to the colour differences of PI itself.

### 5. Thickness and tolerance

Thickness (μm)	tolerance (μm)
PI standard thi. +Ad thi.	±10%

### 6. Properties of products

Test item	Test condition	Unit	Quality standard	Test method	Test frequency
Peel strength	90° peeling	Kgf/cm	≥1.0	IPC-TM-650-2. 4. 9	D
Sodering resistance (With Adhesive on the Outlayer )	265°C/10 秒	—	No delamination、no blister	IPC-TM-650-2. 4. 13	D
Sodering resistance (Without Adhesive on the Outlayer )	288°C/10 秒	—	No delamination、no blister	IPC-TM-650-2. 4. 13	D
transitivity	110°C-130°C Laminator transfer	—	110°C-130°C can transfer	----	D
Chemical resistance	2mol/L NaOH	%	≤20	IPC-TM-650 2.3.2	M

(peel strength decrease rate)	2mol/L HCl	%	≤20		M
	IPA	%	≤20		M
Products can meet the demand of ROHS、SVHC.					

Note: D means test daily, M means test monthly.

## 7. Pressing\Curing process conditions

### 7.1 Traditional press machine

Press:12-14MPa Tep:165~170°C Keep:60 min.

### 7.2 Fast press machine

press:12-14Mpa Tep:175~180°C Beforehand press time:10s Press time:120~150s

Curing temperature after fast press in oven: 165~170°C \* 60min(time)

Note:Users can confirm the proper press and curing condition according to their equipment ,process and property demand.

## 8. Products size

Width ,Length, and the tolerances

Item	Standard size	
Width(mm)	250±0.5	Or according to customers' s demand
Length(m)	200(+1/-0)	
Joint No. s	No more than 4	

## 9. Guarantee period

The guarantee period listed below:

Packing	Storage condition	Grantee period
Moistureproof, dry, sealed package	sealed package 、 room temperature 10-30°C、 RH no more than 65%、 avoid the environment of corrosion, moist, and direct sunlight	6months

## 10. Products lable

KATAS' s lable should contain the below content:

- (1) Manufacture
- (2) Product name
- (3) model
- (4) Specification(Width\* Length)
- (5) Guarantee period
- (6) Area (M2)
- (7) Producing date
- (8) Storage condition
- (9) Lot No.
- (10) Contact method
- (11) Address.

## 11. Test report (Inspection results)

Each lot of one model' s product has a test report when delivery.

# Test report

SHENZHEN KATAS TECHNOLOGY CO., LTD

Product Name: PI Stiffener

Product model: KTS-PI5025(U)

Product Thickness: PI=0.125mm,AD=25um

Producing date: 2013.3.27

Packing Size: 250mm×50M

Test date: 2013.3.26

Characteristic		Standard value	Test value	Test method
Products composition		PI=125	—	—
		AD=25	—	—
Thickness(μm)		150±10	Max:158μm Min:142μm	Micrometer
Peel strength (kgf/cm) 90°C	Normal Tep	10N/cm	10	IPC-TM650 2.4.9
	260°C	10N/cm	Pass	
Sodering resistance (With Adhesive on the Outlayer )		265°C×10S	265°C×10S	IPC-TM650 2.4.13
Sodering resistance (Without Adhesive on the Outlayer )		288°C×10S	288°C×10S	IPC-TM650 2.4.13
Resin flow (mm)		< 0.15	< 0.09	IPC-TM650 2.3.17.1
Dimention stability(%)	MD	±0.1	Pass	IPC-TM-650 2.2.4
	TD	±0.1	Pass	
Chemical resistance	trichloromethane	No delamination, No blister	Pass	IPC-TM650 2.5.17
	butanone			
Guarantee period		Normal humidity, Room temp, 6months		

Test result:

合格
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Tested by: Hong Liu

## 12. Use of note

- a. Due to its easy metamorphism in direct sunlight, so please avoid direct sunlight at storage.
- b. Please do not store in high temperature and wet places, Do not process in acid or alkali steam,.Otherwise it will cause its physical property changes
- c. Cannot stand straightly(Please place as it says on the box " This side up" );
- d. Once opened, please repacking well, or please use up soon.
- e. Edge material and other waste, please treat them as industrial waste by the regulation, please don't burn or do other treatment in the case of unauthorized.