

PRODUCT SPECIFICATION

产品规格书

客户名称:

产品类型: 补强板

产品品名: OKT-PIXXXX(X)

客户承认	品质	签章		工程	签章			签章	
		日期			日期			日期	
奥科泰	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
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目 錄

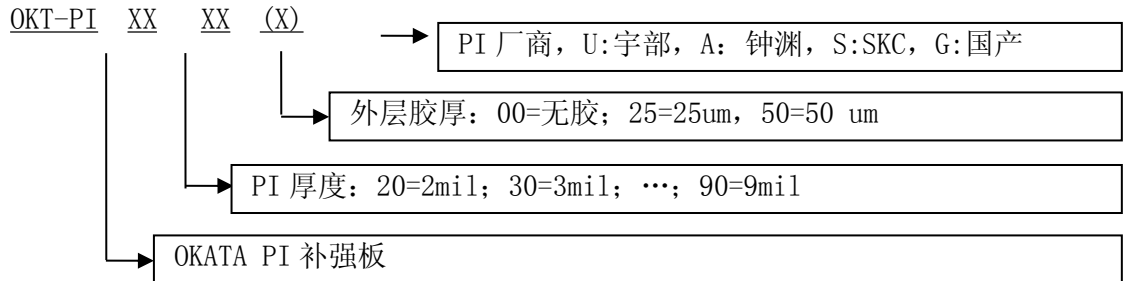
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1. 适用范围

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。

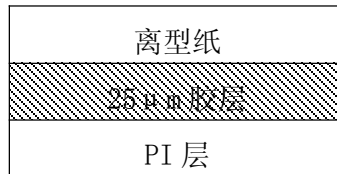
2. 产品品名

补强板产品品名：OKT-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℃/10 秒	—	无分层、起泡	IPC-TM-650-2.4.13	D
浸焊性(外层不带胶的)	288℃/10 秒	—	无分层、起泡	IPC-TM-650-2.4.13	D
转移性	110℃-130℃ 过塑机转移	—	110℃-130℃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±1	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

奥科泰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

深圳奥科泰实业有限责任公司

产品名称: <u>聚酰亚胺PI 补强片</u>	产品型号: <u>OKT-PI5025(U)</u>
规格厚度: <u>PI=0.125mm, AD=25um</u>	生产日期: <u>2013.3.27</u>
包装规格: <u>250mm×50M</u>	出厂日期: <u>2013.3.26</u>

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
	260℃	10N/cm	Pass	2.4.9
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
	TD	±0.1	Pass	2.2.4
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-PIXXXX(X)

Customer signature	Quality dep	Signa ture		Engineer dep	signature		signature	
		Date:			Date:			Date:
Supplier signature	Sales dep.	Signat ure		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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Catalogo

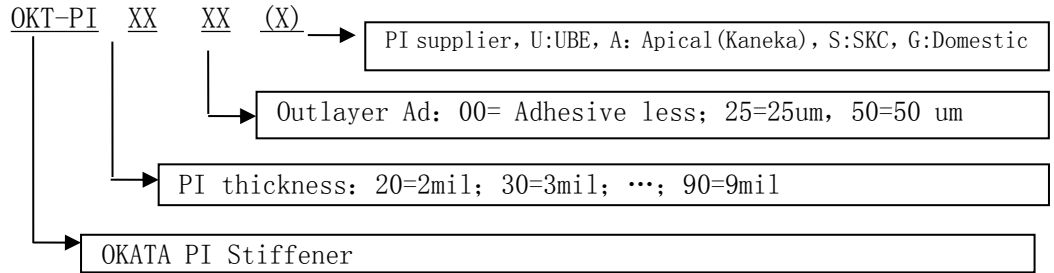
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1. Scope of application

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

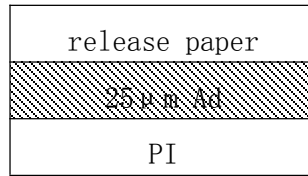
2. Products name

PI stiffener name: OKT-PIXXXX(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(μ m)	tolerance (μ m)
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℃/10 秒	—	No delamination, no blister	IPC-TM-650-2.4.13	D
Sodering resistance (Without Adhesive on the Outlayer)	288℃/10 秒	—	No delamination, no blister	IPC-TM-650-2.4.13	D
transitivity	110℃-130℃ Laminate or transfer	—	110℃-130℃ can transfer	----	D
Chemical resistance (peel strength decrease rate)	2mol/L NaOH	%	≤20	IPC-TM-650 2.3.2	M
	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±1	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

OKATA' s lable should contain the below content:

- | | |
|----------------------|----------------------------------|
| (1) Manufacture | (2) Product name |
| (3) model | (4) Specification(Width* Length) |
| (5) Guarantee period | (6) Area(M ²) |
| (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 OKATA ENTERPRISE CO., LTD

Product Name: PI Stiffener Product model: OKT-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℃	Normal Tep	10N/cm	10	IPC-TM650
	260℃	10N/cm	Pass	2.4.9
Sodering resistance (With Adhesive on the Outlayer)		265℃×10S	265℃×10S	IPC-TM650 2.4.13
Sodering resistance (Without Adhesive on the Outlayer)		288℃×10S	288℃×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
	TD	±0.1	Pass	2.2.4
Chemical resistance	trichloromethane	No	Pass	IPC-TM650 2.5.17
	butanone	delamination, No blister		
Guarantee period		Normal humidity, Room temp, 6months		

合格

Test result:

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 open, 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.