



广东东溢新材料科技有限公司

GUANGDONG DONGYI HIGH-TECH MATERIAL SCIENCE&TECHNOLOGY CO., LTD.

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 PET 补强板 PET Base Halogen Free stiffener		
材料品名 Material name: DTEX 系列		
编号 No:D003 版本 Ver: A/3		
制作日期 Date of production:2024/01/24		
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

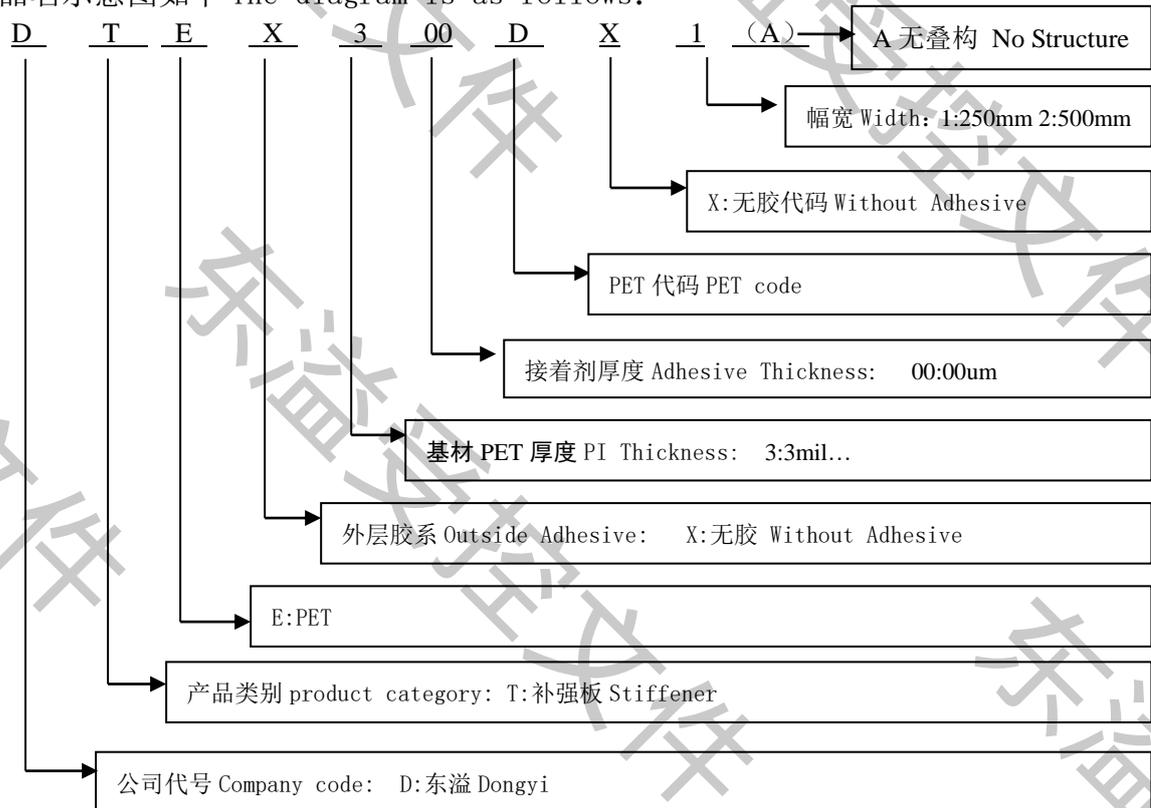
- 优秀的耐热性能 Outstanding thermal resistance
- 优异的平坦性 Excellent flatness
- 优良的耐化学性 Good chemical resistance
- 优异的电性能 Excellent electrical performance and insulation performance
- 无卤无锑，符合 ROHS 环保指令 Halogen & antimony free, ROHS compliant

● 产品结构 Product Structure



● 编码原则 Product coding principle

品名示意图如下 The diagram is as follows:



● 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	A	10%	东溢规范 Dongyi Method
2	幅宽 Width	mm	A	标准值 +2/-0mm	东溢规范 Dongyi Method
3	焊锡耐热性 Solder Resistance	---	230°C/10S	无分层、起泡 No delamination, sparkling	IPC-TM-650-2.4.13
4	翘曲 Curl	cm	A	≤5	IPC-TM-650-2.3.17.1

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

无胶 PET 补强板: 温度 < 10°C、湿度 < 70%RH、真空包装、无腐蚀性气体的室内, 制造日期后保存 12 个月。Temperature < 10°C, humidity < 70% RH, airproof vacuumed packaging, no corrosive gas chamber for 12 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



无卤标签 Halogen free label:

环保标签 Green label:

合格标签 Inspection tag:



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.
1	2	3	4	5	6	7	8	9	10	11	12

● 装运 Shipment

每批提供一份质量检验报告，入下表: Each shipment of each specification provides a quality inspection report. The following table:

 广东东溢新材料科技有限公司 GUANGDONG DONGYI HIGH-TECH MATERIAL SCIENCE&TECHNOLOGY CO., LTD.			
无胶补强板出厂检验报告		编号: JL-Q-02-004-13	
日期 (Date):		客户 (customer):	
品名 (Material spec)			
批号 (Lot No.)			
补强板厚度 (Stiffener thickness) Unit: μm		200	
保存期限 (Shelf life)		$<10^{\circ}\text{C}$, $<70\%RH$ 保存12个月 (Below 10°C , $70\%RH$ for 12 months)	
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)	厚度 $\leq 100\mu\text{m}$, $\pm 5\%$ 厚度 $> 100\mu\text{m}$, $\pm 10\%$	
幅宽 (Width)	东溢规范 (Unit: mm)	250 \pm 2/-0	
卷曲 (Curl)	TD	IPC-TM-650 2.4.22 (Unit: cm)	≤ 5
	MD		
焊锡耐热性 (Solder Float Resistance) 230 $^{\circ}\text{C}$ /10sec	IPC-TM-650 2.4.13	无分层起泡 (No Blistering or Delamination)	
产品判定结果			
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. 在无胶补强板背胶前, 如产品表面需清洁, 须保证产品表面干燥及不残留溶剂 (如酸碱、油污等), 否则引起化学反应而影响PI面剥离强度。			
4. 压合后的产品建议使用干层架烘烤, 如无干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。			
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审核 (APPROVED BY): 李松梅		检验员 (CHECKED BY): 陈景玲	

● 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回暖直至产品温度回升至室温温度 (20--30 $^{\circ}\text{C}$) 后方才使用、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 if product was placed in under Temperature 10 $^{\circ}\text{C}$ 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. 在无胶补强板贴合前，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）。Without 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. 产品如需烘烤建议使用千层架烘烤，烘烤温度 Temp: 140~150°C，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。If the product is to be baked, the baking temperature is Temp: 140 ~ 150 ° C, and if there is no layer, the number of layers recommended does not exceed 20 PNL to avoid overlaying and affect the curing effect of the product.

● 常规物性测试方法 Properties Test Method

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.

2. 检测设备 Testing instruments:

锡炉。Wave solder

3. 样品制作 The sample:

将样片裁成 $5 \pm 1 \text{cm} \times 5 \pm 1 \text{cm}$ 三块。The samples were cut into $5 \pm 1 \text{cm} \times 5 \pm 1 \text{cm}$ three block. Bake at $105^\circ\text{C} * 1 \text{hr}$.

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 $230 \pm 5^\circ\text{C}$ ，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 $230 \pm 5^\circ\text{C}$, 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.