



华东销售中心
Eastern China Sales Office

华东制造基地
Eastern China Manufacturing Base

华南销售中心
Southern China Sales Office

华南制造基地
Southern China Manufacturing Base

东溢新材料

DONGYI HIGH-TECH MATERIAL

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材料创新 东溢引领

Expert In Materials Innovation



东溢新材料

DONGYI HIGH -TECH MATERIAL

公司简介

Company Profile

广东东溢新材料科技有限公司成立于2001年，主要以研发、生产、销售各种新型材料为核心的国家高新技术企业，专业生产以无卤环氧树脂聚酰亚胺覆铜箔、无卤环氧树脂聚酰亚胺补强板、无卤环氧树脂聚酰亚胺覆盖膜，改性丙烯酸酯胶膜为主导的四大系列几十种规格的产品。近年又推出了光学透明胶（OCA）、可剥胶、防爆膜、保护膜等摸屏光学系列产品。公司于2013年成立了华东分公司。公司拥有近万平米的研发中心和生产基地，拥有各类先进成套的进口生产设备、检测仪器、超净无尘车间，年产能达到约600万平米。公司被评为中山市首批高新技术企业，民营科技企业，企业技术中心，多项产品被列为省级、市级“火炬开发项目”并先后获得“重大科技专项奖”、“科学技术奖”、“科技成果奖”、“科技进步奖”等多项荣誉称号，公司自主研发的产品在国内获得多项发明专利并为中国挠性线路板行业及电子材料行业的发展做出了卓越的贡献。

公司全面推行质量管理，按照国际同类产品技术标准，确保产品质量。公司研制、生产的产品通过广东省科技厅鉴定并多次获得广东省科技厅和中山市科技局的嘉奖，产品质量在国内同类产品中处于领先地位。公司先后通过ISO9001:2008质量管理体系认证、ISO14001:2015环境管理体系认证、QC080000:2012有害物质管理体系认证、美国UL安全认证，并于2016年取得ISO/TS16949:2009汽车质量管理体系认证。

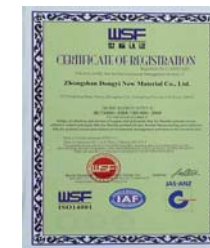
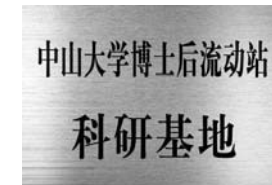
公司坚持和执行严格的商业道德操守和企业管治，以优良品质求生存，以诚信经营求信誉，以科技创新促发展为宗旨，致力于发展民族工业。面对未来，勤劳、执着的东溢人，将秉承过去的辉煌，以零起点的心态继续努力。积极面对未来的挑战，着力打造“东溢”品牌，稳步朝着将东溢发展成为国际化新材料企业的目标迈进！

Dongyi was founded in January 2001. The company is accredited as the National high-tech enterprise which provides 4 major product lines and dozens of products with various specifications. These 4 major product lines are: Epoxy Resin Polyimide (PI) film based Flexible Copper Clad Laminate (FCCL), Epoxy Resin Polyimide (PI) Film based Stiffener, Epoxy Resin Polyimide (PI) film based Coverlay and Acrylic Ester Resin based Bonding Sheet. In recent years, the company has launched a series of touch panel optical products such as Optical Clear Adhesive (OCA), Peelable Solder Mask, Bursting Disk, protective film and so on. In 2013 Dongyi build the East China branch. The company has established over 10,000 square meters of R&D center. The Company is equipped with various complete sets of advance imported production equipment, testing equipment and clean rooms and with annual production capacity of 6 million square meters. In addition, the Company was also accredited as the "High-Tech Enterprise" and "Private Technological Enterprise" of the Zhongshan Municipal Government. At the same time, the Company was recognized as the "Enterprise Technology Center" by the Zhongshan South District Municipal Government. Multiple products of the Company has been classified as Provincial and City-level "Torch Projects" and the company has won a variety of awards such as the "Important Science & Technology Specific Projects Award", "Science and Technology Award", "Science and Technology Achievement Award" and "Science and Technology Progress Award". Varieties of products which have been independently researched by the Company have been awarded many patents and made remarkable contributions to the development of the FCCL, FPC and related electronics industry in China.

Dongyi is very stringent about maintaining high standards on product quality. Further, the Company was accredited with the ISO9001-2008 Quality Management System Certificate, the ISO14001 Environmental Management System Certificate and the IECQ QC080000 Harmful Substance Management System Certificate, the Company obtained UL Certification, and was accredited with the ISO/TS16949:2009 Automotive Quality Management System Certificate. Dongyi complies with the high standards of business ethics and strict corporate governance, and Dongyi is committed in propelling the development of national electronic material industry.

In the future, the hardworking and dedicated personnel of Dongyi will carry forward the great achievements and traditions in the past, and shall march forward with beginner's mindset to achieve greater breakthroughs. We will proactively face the challenges in the future and focus on molding "Dongyi" into a top brand, and steadily forging ahead in building Dongyi into an international enterprise!

公司荣誉



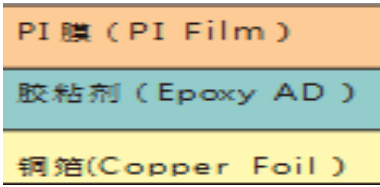
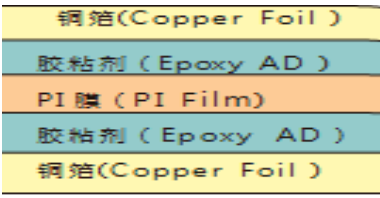

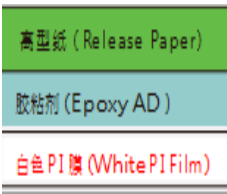


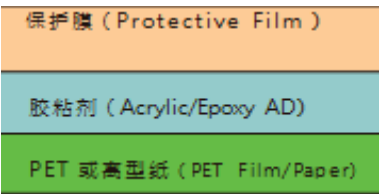

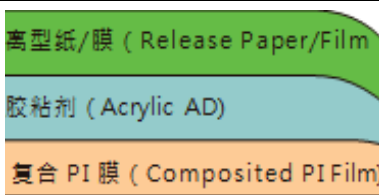
FPC 材料系列 Product Series for FPC

类型 category		型号 Model	胶类型 Adhesive	膜类型 PI (mil)	胶厚度 Ad (um)	应用 Application
3L-FCCL	单、双面 single & double-sided	DSIF/DDIF	Epoxy	0.5, 1, 2	08~50	LCM、TP、HDD、Power battery
CVL	普通 Normal	DCIB	Epoxy	0.3,0.5, 1	05~75	LCM、TP、HDD
	白色 white	DCWB	Epoxy	0.5, 1	05~75	LED、Light Bar
	黑色 black	DCIB	Epoxy	0.3,0.5, 1	05~75	LCM、TP
	高遮蔽 High shaded	DCBB	Epoxy	0.5, 1	25,30	LCM、TP
Bonding Sheet	高粘 High viscosity	P-A1	Acrylic	/	12.5~50	For FR4、PI Stiffener
	环氧 Epoxy	P-E	Epoxy	/	12.5~50	For multilayer FPC
Stiffener	无胶 Without adhesive	DTIX	Epoxy	2~16	/	Gold finger of FPC Reinforce
	有胶 With adhesive	DTIA	Epoxy and Acrylic	2~16	12.5~50	
PET FCCL/CVL	高透光覆铜板与覆盖膜 Transparent FCCL and CVL	DSEK/DDEK/ DCEK	Modified Polyester	0.5,1,2,3	08~50	For High-transparent FPC
	覆铜板与覆盖膜 FCCL and CVL	DSEB/DDEB/ DCEB	Epoxy	0.5,1,2,3	08~50	TP、Light Bar
New Product	高性能纯胶膜 High performance Bonding Sheet	PH-K	Modified Acrylic	/	12.5~50	For Steel 、aluminum
	低介电纯胶膜 LOW DK/DF Bonding Sheet/ FCCL/CVL	PL-L/ DSIL/DCIL	Modified PPE	0.3,0.5, 1	12.5~50	For High-frequency high speed FPC
	黑色补强板 Black Stiffener	DTIX/ DTIA	Epoxy and Acrylic	2~16	12.5~50	Gold finger of FPC Reinforce
	耐高温亚克力胶胶带 High temperature resistant acrylic adhesive tape	DGIA	Acrylic	0.5,1	10~50	process selective plating

备注：以上为常用规格，胶的厚度可以依据客户要求做调整。




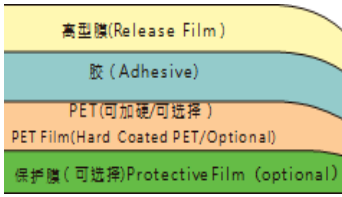


FPC 材料系列 Product Series for FPC

类型 category	平方米/月 (m ² / month)	产品结构 Product Structure			
无卤覆铜板 3L-FCCL	12 万				
无卤覆盖膜 Coverlay	20 万				
纯胶膜 Bonding Sheet	18 万				
补强板 Stiffener	8 万				
总计 Total	58 万				



触摸屏材料系列 Product Series for TP

类型 category	Specifications	Adhesive	PET (um)	Ad (um)	应用 Application
保护膜 PU Protective film	DLEU	PU	50, 75 , 100	10	Applicable to the panel, glass lens, and touch screen module protection
承载膜 Heat resistant PET Coverlay	DLEA	Acrylic	50, 75 , 100	10	Applicable to process protection with heat requirements. Suitable for touch panel module , ITO film, protection
防爆膜 Anti-Shattering film	DSHS	Acrylic	50, 75 , 100	25 , 50	Protection of touch panel glass
光学透明胶带 Optical Clear Adhesive	DORS	Acrylic	50, 75 , 100	175 , 200, 250	Lamination for cover ITO glass/film of the touch panel

类型 category	平方米/月 (m ² /month)	产品结构 Product Structure	类型 category	平方米/月 (m ² /month)	产品结构 Product Structure
保护膜 PU Protective film	30 万		防爆膜 Anti-Shattering film	20 万	
承载膜 Heat resistant PET coverlay	30 万		光学透明胶带 Optical Clear Adhesive	20 万	
总计 Total	100 万				

丙烯酸纯胶

Acrylic Ester Resin Based Bonding Sheet



产品特点

- 高剥离强度
- 较低的流动性和优良的加工性
- 优异的耐化学性和耐热性
- 符合 ROHS 环保指令

Product Features

- Excellent peel strength
- Low fluidity and excellent processability
- Excellent chemical and thermal resistance
- ROHS compliant

产品性能 Product Properties

测试项目 Test Item	单位 Unit	P25 -250A1	P40 -250A1	测试方法 Test Method
剥离强度 Peel strength(90°)	kgf/cm	> 1.8	> 2.5	IPC-TM-650 2.4.9
溢胶量 Resin flow	mm	< 0.15	< 0.20	IPC-TM-650 2.3.17.1
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH /HCl	%	< 6	IPC-TM-650 2.3.2
耐焊锡性 Solder	/	280°C*10S	270°C*10S	IPC-TM-650 2.4.13
体积电阻 Volume resistivity	1000V	Ω-cm	> 2.0×10 ¹²	IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 2.0×10 ¹¹	
介电常数 Dielectric Constant	1MHz	/	3.6~3.8	IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.030~0.040	
玻璃化转变温度 glass-transition temperature	1MHz	°C	10~20	DMA
阻燃性 Flammability	/		IR	UL94
储存性 Storage	真空密封包装；相对温度：< 30°C；湿度：< 70RH%；储存期：6 个月；Vacuumed packaging; Relative Temperature: < 30°C; Humidity: < 70RH%; Storage period: 6months.			

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



聚酰亚胺补强板

Stiffener Based PI Film



产品特点

- 优秀的耐热性能
- 优异的平坦性
- 优良的耐化学性
- 无卤无锑，符合 ROHS 环保指令

Product Features

- Outstanding thermal resistance
- Excellent flatness
- Good chemical resistance
- Halogen & antimony free, ROHS compliant;

产品性能 Product Properties

测试项目 Test Item	单位 Unit	DTIA (SKC PI)	DTIX (SKC PI)	DTIX (UBE PI)	测试方法 Test Method
外层胶厚度 Thickness of adhesive	um	25	0	0	/
剥离强度 Peel strength(90°)	外层	> 1.5	/	/	IPC-TM-650 2.4.9
	内层	> 0.8	> 0.8	> 0.8	
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH/HCl	%	< 6	< 6	IPC-TM-650 2.3.2
杨氏模量 Modulus	GPa	> 1.0	> 1.5	>2.5	IPC-TM-650 2.4.18
耐焊锡性 Solder	/	300°C*10S			IPC-TM-650 2.4.13
卷曲 Curling	MD/TD	cm	≤5		IPC-TM-650 2.4.22
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹³		IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 1.0×10 ¹²		
介电常数 Dielectric Constant	1MHz	/	3.4~3.8		IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.015~0.025		
阻燃性 Flammability	/	V-0			UL94
储存性 Storage	真空密封包装；相对温度：< 30°C；湿度：< 70RH%；储存期：无胶 12 个月，有胶 6 个月 Vacuumed packaging; Relative Temperature: < 30°C; Humidity: < 70RH%; Storage period: Without Adhesive 12months ,With Adhesive 6 months				

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.

无卤聚酰亚胺覆铜板

Halogen-free FCCL Based PI Film (Single & Double-sided)



产品特点

- 优异的耐热性和耐化学性
- 卓越的电性能和绝缘性
- 良好的尺寸稳定性
- 极佳的挠曲性
- 无卤无锑，符合 ROHS 环保指令

Product Features

- Outstanding thermal resistance and chemical resistance
- Fine electrical performance and insulation performance
- Good dimensional stability
- Excellent flexibility
- Halogen & antimony free, ROHS compliant

产品性能 Product Properties

测试项目 Test Item			单位 Unit	DSIF0120	DDIF0120	测试方法 Test Method
剥离强度 Peel strength(90°)			kgf/cm	> 1.0	> 1.0	IPC-TM-650 2.4.9
尺寸安定性 Dimensional Stability	Method B	MD/TD	%	±0.15	±0.15	IPC-TM-650 2.2.4
	Method C	MDTD		±0.20	±0.20	
耐化性 Chemical resistance (Dipping /10min)		IPA/NaOH/ HCl	%	< 6	< 6	IPC-TM-650 2.3.2
耐焊锡性 Solder			/	300°C*10S		IPC-TM-650 2.4.13
体积电阻 Volume resistivity		1000V	Ω-cm	> 1.0×10 ¹⁴		IPC-TM-650 2.5.17
表面电阻 Surface resistance			Ω	> 1.0×10 ¹³		
介电常数 Dielectric Constant		1MHz	/	3.4~3.8		IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor			/	0.015~0.025		
玻璃化转变温度 glass-transition temperature	AD	1MHz	°C	60~80		DMA
阻燃性 Flammability			/	V-0		UL94
储存性 Storage	真空密封包装；相对温度：< 30°C；湿度：< 70RH%；储存期：12 个月 Vacuumed packaging; Relative Temperature: < 30°C; Humidity: < 70RH%; Storage period: 12months					

注：以上数据仅供参考，详见检验报告。

Note: Data shown above are nominal values for reference only, for details please refer to COA.



无卤普通&黑色覆盖膜

Halogen-free Normal & Black Coverlay



产品特点

- 优异的耐热性和耐化学性
- 优异的电性能和绝缘性
- 优良尺寸安定性
- 良好的溢胶量控制有利于 FPC 压合
- 无卤无锑，符合 ROHS 环保指令

Product Features

- Excellent thermal resistance and chemical resistance
- Outstanding electrical performance and insulation performance
- Good dimensional stability
- Adhesive flow well controlled and be good for FPC lamination
- Halogen & antimony free, ROHS compliant

产品性能 Product Properties

测试项目 Test Item		单位 Unit	DCIB015	DCIB025	DCIB025N 黑色 CVL	测试方法 Test Method
剥离强度 Peel strength(90°)		kgf/cm	> 1.0	> 1.0	> 1.0	IPC-TM-650 2.4.9
尺寸安定性 Dimensional Stability		MD/TD	%	±0.15	±0.15	IPC-TM-650 2.2.4
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH HCl	%	< 6	< 6	< 6	IPC-TM-650 2.3.2
光泽度 Gloss	60°	Gu	/	/	25	JIS Z8741
耐焊锡性 Solder		/	300°C*10S			IPC-TM-650 2.4.13
溢胶量 Adhesive Flow		mm	0.05 ~ 0.125			IPC-TM-650 2.3.17.1
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹³			IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 1.0×10 ¹²			
介电常数 Dielectric Constant	1MHz	/	3.4~3.8	4.0~4.2		IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.015~0.025	0.035~0.055		
玻璃化转变温度 glass-transition temperature	AD	1MHz	°C	50~60		DMA
阻燃性 Flammability		/	V-0			UL94
储存性 Storage	真空密封包装；相对温度：< 10°C；湿度：< 70RH%；储存期：3 个月 Vacuumed packaging; Relative Temperature: < 10°C; Humidity: < 70RH%; Storage period: 3months					

注：以上数据仅供参考，详见检验报告。

Note: Data shown above are nominal values for reference only, for details please refer to COA.



无卤白色覆盖膜

Halogen-free White Coverlay



产品特点

- 高白度、耐黄变性能
- 高反射率、优异耐热性
- 优异的电性能和绝缘性
- 优良尺寸安定性
- 无卤无锑，符合 ROHS 环保指令

Product Features

- High Degree of whiteness, resistant to yellowing
- High Reflective rate, Excellent heat resistance
- Outstanding electrical performance and insulation performance
- Good dimensional stability
- Halogen & antimony free, ROHS compliant

可靠性 Reliability Test

测试项目 Test Item		单位 Unit	DCWB125	DCWB015	
			15um white ink		
反射率 Reflectivity	固化后 After Curling	%	81.2	82.4	
	SMT 后 After SMT		80.2	81.1	
油墨耐热性 Solder of ink	300°C Dipping 10s	次	5 次 OK	5 次 OK	
	360°C Dipping 10s		3 次 OK	3 次 OK	
	380°C Dipping 3s		3 次 OK	3 次 OK	
颜色 Color	亮度 L	固化后 After Curling	%	90.6	90.5
		SMT 后 After SMT		90.2	90.3
	黄度 b	固化后 After Curling	/	b=-4.51 b*=0	b=-4.68 b*=0
		SMT 后 After SMT		b=-3.88 b*=0.63	b=-4.04 b*=0.64

无卤白色覆盖膜 Halogen-free White Coverlay

产品性能 Product Properties

测试项目 Test Item	单位 Unit	DCWB015	DCWB125	测试方法 Test Method	
剥离强度 Peel strength(90°)	kgf/cm	> 1.0	> 1.2	IPC-TM-650 2.4.9	
尺寸安定性 Dimensional Stability	MD	±0.15	±0.15	IPC-TM-650 2.2.4	
	TD	±0.15	±0.15		
耐化性 Chemical resistance (Dipping /10min)	IPA/ NaOH/ HCl	%	< 6	IPC-TM-650 2.3.2	
达因值 Dyne value	/	> 32		IPC-TM-650 2.4.18	
油墨面剥离强度 (贴补强板)	Kgf/cm	> 1.0		Dongyi test method	
反射率 Reflectivity	%	> 80		JIS Z8722	
耐焊锡性 Solder	/	300°C*10S		IPC-TM-650 2.4.13	
溢胶量 Adhesive Flow	mm	0.05 ~ 0.15		IPC-TM-650 2.3.17.1	
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹³	IPC-TM-650 2.5.17	
表面电阻 Surface resistance		Ω	> 1.0×10 ¹²		
介电常数 Dielectric Constant	1MHz	/	3.5~4.5	IPC-TM-650 2.5.5.3	
损耗因子 Dissipation Factor		/	0.040~0.050		
玻璃化转变温度 glass-transition temperature	AD	1MHz	°C	40~60	DMA
阻燃性 Flammability	/		V-0	UL94	
储存性 Storage	真空密封包装；相对温度：<10°C；湿度：<70RH%；储存期：3个月 Vacuumed packaging; Relative Temperature: <10°C; Humidity: <70RH%; Storage period: 3months				

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



PU 保护膜

PU Protective Film



产品特点

- 排气性佳，抗静电感应
- 超低粘接性能
- 符合环保要求
- 优异的制程适应能力

Product Features

- Good wetting properties, bubble free, anti-static
- Ultra-low adhesive properties
- Complies with environmental requirements
- Excellent process adaptability

产品性能 Product Properties

测试项目 Test Item		单位 Unit	DLEU2102	DLEU4102	测试方法 Test Method
厚度 Thickness	离型膜 Release Film	um	50	50	JIS K7130
	胶 Adhesive		10	10	
	PET		50	100	
离型力 Release Force		g/25mm	2	2	JIS Z0237
剥离力(玻璃)Peel Strength(glass) (180°C)		g/25mm	2	3	
排气性 Wetting		Sec	2	2	
储存性 Storage	真空密封包装；相对温度：25±5°C；湿度：<70RH%；储存期：9个月 Vacuumed packaging; Relative Temperature: 25±5°C; Humidity: <70RH%; Storage period: 9months				

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



高温承载膜

Heat Resistant PET Coverlay



产品特点

- 无酸、无残胶带
- 超低粘接性能
- 符合环保要求
- 耐热性能优异

Product Features

- Acid-free, residue-free
- Ultra-low adhesive properties
- Complies with environmental requirements
- Excellent thermal resistance

产品性能 Product Properties

测试项目 Test Item		单位 Unit	DLEU2102	测试方法 Test Method		
厚度 Thickness	离型膜 Release Film	um	50	JIS K7130		
	胶 Adhesive		10			
	PET		50			
剥离强度 Peel Strength (180°C)	覆贴 30 分钟 后 After 30 min of lamination	玻璃 Glass	2.6 (无残胶 No Residue)	JIS Z0237		
		不锈钢 SUS	2.4 (无残胶 No Residue)			
		加硬 PET HC-PET	2.2 (无残胶 No Residue)			
	150°C*3hr	玻璃 Glass	gf/25mm	12.3 (无残胶 No Residue)	JIS Z0237	
				180°C*3hr		16.0 (无残胶 No Residue)
				150°C*5hr		17.8 (无残胶 No Residue)
储存性 Storage	真空密封包装 ; 相对温度 : 25±5°C ; 湿度 : < 70RH% ; 储存期 : 9 个月 Vacuumed packaging; Relative Temperature: 25±5°C; Humidity: < 70RH%; Storage period: 9months					

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



防爆膜 Anti-Shattering Film(ASF)

产品特点

- 无酸型、不会腐蚀 ITO
- 符合环保要求
- 光学性能优异、优异的附着力
- 非常高的表面硬度
- 优异的制程适应能力

Product Features

- Acid free, Non-corrosive, ITO compatible bonding
- Complies with environmental requirements
- Excellent optical and adhesive properties
- Excellent surface hardness
- Excellent process adaptability

产品性能 Product Properties

测试项目 Test Item		单位 Unit	DSHS4012	DSHS4022	测试方法 Test Method
厚度 Thickness	离型膜 Release Film	um	50	50	JIS K7130
	胶 Adhesive		25	50	
	加硬 PET Hard Coating PET		100	100	
	保护膜片 Protective Film		46	46	
铅笔硬度 Pencil Hardness			2H	2H	JIS 5400
离型力 Release Force	轻离型号 Light Release	gf/25mm	10	10	JIS Z0237
剥离强度 Peel Strength (180°C)	玻璃 Glass	gf/25mm	20	25	
透光率先 Light Transmittance		%	93.2	93.0	
雾度 Haze		%	0.30	0.32	JIS K7136
b*		/	0.15	0.15	JIS Z8729
储存性 Storage	真空密封包装；相对温度：25±5°C；湿度：<70RH%；储存期：9个月 Vacuumed packaging; Relative Temperature: 25±5°C; Humidity: <70RH%; Storage period: 9months				

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



光学透明胶带

Optical Clear Adhesive (OCA)



产品特点

- 无酸型、不会腐蚀 ITO
- 符合环保要求
- 光学性能优异、优异的附着力
- 耐老化性好、胶质较软
- 优异的制程适应能力

Product Features

- Acid free, Non-corrosive, ITO compatible bonding
- Complies with environmental requirements
- Excellent optical and adhesive properties
- Excellent aging properties, Soft type adhesive
- Excellent process adaptability

产品性能 Product Properties

测试项目 Test Item		单位 Unit	DORS3072	DORS3102	测试方法 Test Method
厚度 Thickness	轻离型膜 Light Release Film	um	50	50	JIS K7130
	胶 Adhesive		175	250	
	重离型膜 Heavy Release Film		75	75	
剥离强度 Peel Strength (180°C)	玻璃 Glass	N/25	32	35	JIS Z0237
	不锈钢 SUS	mm	28	30	
	PET		26	28	
	PC		30	30	
离型力 Release Force	轻离型 Light Release	gf/25	10	10	JIS Z0237
	重离型膜 Heavy Release	mm	35	35	
透光率先 Light Transmittance		%	94.8	93.7	JIS K7136
雾度 Haze		%	0.35	0.40	
b*			0.10	0.11	
储存性 Storage	真空密封包装；相对温度：25±5°C；湿度：< 70RH%；储存期：9个月 Vacuumed packaging; Relative Temperature: 25±5°C; Humidity: < 70RH%; Storage period: 6months				

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



高遮蔽性黑色覆盖膜

High shaded black Coverlay



产品特点

- 优异的耐热性和耐化学性
- 优异的电性能和绝缘性
- 优良尺寸安定性
- 优秀的遮盖率，LED灯不透光
- 无卤无锑，符合ROHS环保指令

Product Features

- Excellent thermal resistance and chemical resistance
- Outstanding electrical performance and insulation performance
- Good dimensional stability
- Excellent covering ratio, LED lamp is not transparent
- Halogen & antimony free, ROHS compliant

产品性能 Product Properties

测试项目 Test Item		单位 Unit	DCBB02541N	DCBB12541N	测试方法 Test Method
剥离强度 Peel strength(90°)		kgf/cm	> 1.0	> 1.0	IPC-TM-650 2.4.9
尺寸安定性 Dimensional Stability	MD/TD	%	±0.15	±0.15	IPC-TM-650 2.2.4
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH HCl	%	< 6	< 6	IPC-TM-650 2.3.2
耐焊锡性 Solder		/	300°C*10S		IPC-TM-650 2.4.13
溢胶量 Adhesive Flow		mm	0.05 ~ 0.125		IPC-TM-650 2.3.17.1
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹³		IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 1.0×10 ¹²		
介电常数 Dielectric Constant	1MHz	/	4.5~5.0		IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.040~0.060		
玻璃化转变温度 glass-transition temperature	AD	1MHz	°C	50~60	DMA
阻燃性 Flammability		/	V-0		UL94
储存性 Storage	真空密封包装；相对温度：<10°C；湿度：<70RH%；储存期：3个月 Vacuumed packaging; Relative Temperature: <10°C; Humidity: <70RH%; Storage period: 3months				

注：以上数据仅供参考，详见检验报告。

Note: Data shown above are nominal values for reference only, for details please refer to COA.



高透光 PET 覆铜板与覆盖膜

Transparent PET FCCL and CVL



产品特点

- 优异的剥离强度
- 高透明度和耐黄变性
- 优异的耐化学性和耐热性
- 无卤无锑，符合 ROHS 环保指令

Product Features

- Excellent peel strength
- High transparency and yellowing resistance
- Excellent chemical and thermal resistance
- Halogen & antimony free, ROHS compliant

产品性能 Product Properties

测试项目 Test Item	单位 Unit	DSEK5250PM1	DCEK12541P	测试方法 Test Method
剥离强度 Peel strength(90°)	kgf/cm	> 1.0	> 1.0	IPC-TM-650 2.4.9
尺寸安定性 Dimensional Stability	MD/TD %	±0.15	±0.15	IPC-TM-650 2.2.4
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH /HCl %	< 6	< 6	IPC-TM-650 2.3.2
耐焊锡性 Solder	/	230°C*30S	230°C*30S	IPC-TM-650 2.4.13
透光率 Light Transmittance	%	> 80 (etched)	> 87	
溢胶量 Adhesive Flow	mm	/	0.05 ~ 0.15	IPC-TM-650 2.3.17.1
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹⁴	IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 1.0×10 ¹³	
介电常数 Dielectric Constant	1MHz	/	3.0~3.2	IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.010~0.020	
透光率 Light Transmittance	压合固化后 after curing	%	> 85	GBT 2410-2008
雾度 Haze		%	< 5	
储存性 Storage	FCCL 真空密封包装；相对温度：< 30°C；湿度：< 70RH%；储存期：12 个月 Vacuumed packaging; Relative Temperature: < 30°C; Humidity: < 70RH%; Storage period: 12months		CVL 真空密封包装；相对温度：< 10°C；湿度：< 70RH%；储存期：3 个月 Vacuumed packaging; Relative Temperature: < 10°C; Humidity: < 70RH%; Storage period: 3months	

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



环氧纯胶膜

Epoxy Bonding Sheet



产品特点

- 优异的剥离强度
- 优异的耐化学性和耐热性
- 无卤无锑，符合 ROHS 环保指令

Product Features

- Excellent peel strength
- Excellent chemical and thermal resistance
- Halogen & antimony free, ROHS compliant

产品性能 Product Properties

测试项目 Test Item	单位 Unit	P12.5 - 250E(F)	P12.5 - 250E(O6)	P25 - 250E(F)	测试方法 Test Method
剥离强度 Peel strength(90°)	kgf/cm	> 1.2	> 1.2	> 1.5	IPC-TM-650 2.4.9
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH /HCl	%	< 6		IPC-TM-650 2.3.2
耐焊锡性 Solder	/	288°C*10S*3 次			IPC-TM-650 2.4.13
溢胶量 Adhesive Flow	mm	0.08 ~ 0.12	0.08 ~ 0.12	0.15 ~ 0.25	IPC-TM-650 2.3.17.1
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹³		IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 1.0×10 ¹²		
介电常数 Dielectric Constant	1MHz	/	3.4~3.8		IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.030~0.040		
玻璃化转变温度 glass-transition temperature	AD	1MHz	°C	50~60	DMA
阻燃性 Flammability	/		IR		UL94
储存性 Storage	真空密封包装；相对温度：< 10°C；湿度：< 70RH%；储存期：3 个月 Vacuumed packaging; Relative Temperature: < 10°C; Humidity: < 70RH%; Storage period: 3months				

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



动力电池覆铜板

FCCL For Power Battery



产品特点

- 耐高电流性能
- 优异的耐化学性和耐热性
- 无卤无锑，符合 ROHS 环保指令

Product Features

- High current resistance
- Excellent chemical and thermal resistance
- Halogen & antimony free, ROHS compliant

产品性能 Product Properties

测试项目 Test Item		单位 Unit	DSIF1202	DDIF1202	DSIF2201	DDIF2201	测试方法 Test Method
剥离强度 Peel strength(90°)		kgf/cm	> 1.5	> 1.5	> 1.5	> 1.5	IPC-TM-650 2.4.9
尺寸安定性 Dimensional Stability	Method B MD/T D	%	±0.10	±0.10	±0.10	±0.10	IPC-TM-650 2.2.4
	Method C MD/T D		±0.15	±0.15	±0.15	±0.15	
耐化性 Chemical resistance (Dipping /10min)	IPA	%	< 6	< 6	< 6	< 6	IPC-TM-650 2.3.2
	NaOH		< 6	< 6	< 6	< 6	
	HCl		< 6	< 6	< 6	< 6	
耐焊锡性 Solder		/	320°C*10S				IPC-TM-650 2.4.13
体积电阻 Volume resistivity	1000 V	Ω-cm	> 1.0×10 ¹⁴				IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 1.0×10 ¹³				
介电常数 Dielectric Constant	1MH Z	/	3.4~3.8				IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.020~0.030				
玻璃化转变温度 glass-transition temperature	AD	1MHz	°C				DMA
阻燃性 Flammability		/	V-0				UL94
储存性 Storage	真空密封包装；相对温度：< 30°C；湿度：< 70RH%；储存期：12个月 Vacuumed packaging; Relative Temperature: < 30°C; Humidity: < 70RH%; Storage period: 12months						

注：以上数据仅供参考，详见检验报告。

Note: Data shown above are nominal values for reference only, for details please refer to COA.



动力电池覆盖膜

CVL For Power Battery



产品特点

- 高绝缘性能
- 优异的耐化学性和耐热性
- 无卤无锑，符合 ROHS 环保指令

Product Features

- High Insulating Property
- Excellent chemical and thermal resistance
- Halogen & antimony free, ROHS compliant

产品性能 Product Properties

测试项目 Test Item	单位 Unit	DCIB250	DCIB150	测试方法 Test Method	
剥离强度 Peel strength(90°)	kgf/cm	> 1.5	> 1.5	IPC-TM-650 2.4.9	
尺寸安定性 Dimensional Stability	MD	±0.10	±0.10	IPC-TM-650 2.2.4	
	TD	±0.10	±0.10		
耐化性 Chemical resistance (Dipping /10min)	IPA	< 6	< 6	IPC-TM-650 2.3.2	
	NaOH	< 6	< 6		
	HCl	< 6	< 6		
杨氏模量 Modulus	GPa	> 1.5	> 1.5	IPC-TM-650 2.4.18	
耐焊锡性 Solder	/	320°C*10S		IPC-TM-650 2.4.13	
溢胶量 Adhesive Flow	mm	0.10 ~ 0.30		IPC-TM-650 2.3.17.1	
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹⁴	IPC-TM-650 2.5.17	
表面电阻 Surface resistance		Ω	> 1.0×10 ¹³		
玻璃化转变温度 glass-transition temperature	AD	1MHz	°C	50~60	DMA
阻燃性 Flammability			/	V-0	UL94
储存性 Storage	真空密封包装；相对温度：<10°C；湿度：<70RH%；储存期：3个月 Vacuumed packaging; Relative Temperature: <10°C; Humidity: <70RH%; Storage period: 3months				

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.





高性能纯胶膜

High performance Bonding Sheet

产品特点

- 优异的剥离强度
- 贴合金属优异的耐高温高湿性能
- 优异的耐化学性和耐热性
- 符合 ROHS 环保指令

Product Features

- Excellent peel strength
- High temperature and high humidity performance
- Excellent chemical and heat resistance
- ROHS compliant

产品性能 Product Properties

测试项目 Test Item	单位 Unit	PH25	测试方法 Test Method	
厚度 Thickness	um	25±3	IPC-TM-650 2.4.9	
贴钢片剥离强度 Peel strength(90°)	A	> 1.5	IPC-TM-650 2.4.9	
	高温高湿 96H 后	> 1.0		
溢胶量 Resin flow	mm	< 0.20	IPC-TM-650 2.3.17.1	
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH /HCl	%	< 6	IPC-TM-650 2.3.2
耐焊锡性 Solder	/	288°C*10S	IPC-TM-650 2.4.13	
体积电阻 Volume resistivity	1000V	Ω-cm	> 2.0×10 ¹²	IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 2.0×10 ¹¹	
介电常数 Dielectric Constant	1MHz	/	3.4~3.8	IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.025~0.035	
玻璃化转变温度 glass-transition temperature	1MHz	°C	10~30	DMA
阻燃性 Flammability	/	IR	UL94	
储存性 Storage	真空密封包装；相对温度：<10°C；湿度：<70RH%；储存期：6个月； Vacuumed packaging; Relative Temperature: <30°C; Humidity: <70RH%; Storage period: 3 months.			
转移性 Metastatic	过塑机：用 120-140°C 过塑，最佳温度 120°C Plastic with 120-140 °C, the optimal temperature of 120 °C			

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



低介电覆铜板

LOW DK/DF FCCL



产品特点

- 极低的介电常数和损耗因子
- 卓越的电性能和绝缘性
- 良好的尺寸稳定性
- 优异的高温高湿性能
- 符合 ROHS 环保指令

Product Features

- Very low DK and DF
- Fine electrical performance and insulation performance
- Good dimensional stability
- High temperature and high humidity performance
- ROHS compliant

产品性能 Product Properties

测试项目 Test Item			单位 Unit	DSIL0120	DDIL0120	测试方法 Test Method
剥离强度 Peel strength(90°)			kgf/cm	> 0.8	> 1.0	IPC-TM-650 2.4.9
尺寸安定性 Dimensional Stability	Method B	MD/TD	%	±0.15	±0.15	IPC-TM-650 2.2.4
	Method C	MDTD		±0.20	±0.20	
耐化性 Chemical resistance (Dipping /10min)		IPA/NaOH/HCl	%	< 6	< 6	IPC-TM-650 2.3.2
耐焊锡性 Solder			/	300°C*10S		IPC-TM-650 2.4.13
体积电阻 Volume resistivity		1000V	Ω-cm	> 1.0×10 ¹⁴		IPC-TM-650 2.5.17
表面电阻 Surface resistance			Ω	> 1.0×10 ¹³		
介电常数 Dielectric Constant		10GHz	/	2.8~3.0		IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor			/	0.005~0.008		
玻璃化转变温度 glass-transition temperature		AD	10GHz	°C	40~60	DMA
阻燃性 Flammability			/	V-0		UL94
储存性 Storage	真空密封包装；相对温度：< 30°C；湿度：< 70RH%；储存期：12 个月 Vacuumed packaging; Relative Temperature: < 30°C; Humidity: < 70RH%; Storage period: 12months					

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



低介电覆盖膜

LOW DK and DF CVL



产品特点

- 优异的高温高湿性能
- 极低的介电常数和损耗因子
- 优异的耐热性
- 符合 ROHS 环保指令

Product Features

- High temperature and high humidity performance
- Very low DK and DF
- Outstanding thermal resistance
- ROHS compliant

产品性能 Product Properties

测试项目 Test Item	单位 Unit	DCIL015	DCIL025	测试方法 Test Method
剥离强度 Peel strength(90°)	kgf/cm	> 0.8	> 1.0	IPC-TM-650 2.4.9
尺寸安定性 Dimensional Stability	MD/TD %	±0.15	±0.15	IPC-TM-650 2.2.4
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH /HCl %	< 6	< 6	IPC-TM-650 2.3.2
耐焊锡性 Solder	/	300°C*10S		IPC-TM-650 2.4.13
溢胶量 Adhesive Flow	mm	0.05 ~ 0.125		IPC-TM-650 2.3.17.1
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹³	IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 1.0×10 ¹²	
介电常数 Dielectric Constant	5GHz	/	2.8~3.0	IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.005~0.008	
玻璃化转变温度 glass-transition temperature	AD 1MHz	°C	40~60	DMA
阻燃性 Flammability	/	V-0		UL94
储存性 Storage	真空密封包装；相对温度：<10°C；湿度：<70RH%；储存期：3个月 Vacuumed packaging; Relative Temperature: <10°C; Humidity: <70RH%; Storage period: 3months			

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



低介电纯胶膜

LOW DK and DF Bonding Sheet



产品特点

- 优异的高温高湿性能
- 极低的介电常数和损耗因子
- 优异的耐热性
- 符合 ROHS 环保指令

Product Features

- High temperature and high humidity performance
- Very low DK and DF
- Outstanding thermal resistance
- ROHS compliant

产品性能 Product Properties

测试项目 Test Item		单位 Unit	PL12.5-250L(F)	PL25-250L(F)	测试方法 Test Method
剥离强度 Peel strength(90°)		kgf/cm	> 1.0	> 1.5	IPC-TM-650 2.4.9
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH /HCl	%	< 6	< 6	IPC-TM-650 2.3.2
耐焊锡性 Solder		/	288°C*10S		IPC-TM-650 2.4.13
溢胶量 Adhesive Flow		mm	0.08 ~ 0.15		IPC-TM-650 2.3.17.1
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹³		IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 1.0×10 ¹²		
介电常数 Dielectric Constant	5GHz	/	2.4~2.5		IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.002~0.004		
玻璃化转变温度 glass-transition temperature	AD	1MHz	°C	40~60	DMA
阻燃性 Flammability		/	V-0		UL94
储存性 Storage	真空密封包装；相对温度：<10°C；湿度：<70RH%；储存期：3个月 Vacuumed packaging; Relative Temperature: <10°C; Humidity: <70RH%; Storage period: 3months				

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



黑色聚酰亚胺补强板

Black Stiffener Based PI Film



产品特点

- 优秀的耐热性能
- 优异的平坦性
- 优良的耐化学性
- 无卤无锑，符合 ROHS 环保指令

Product Features

- Outstanding thermal resistance
- Excellent flatness
- Good chemical resistance
- Halogen & antimony free, ROHS compliant;

产品性能 Product Properties

测试项目 Test Item		单位 Unit	DTIA325NB1	DTIAA25NB1	DTIA325NX1	测试方法 Test Method
外层胶厚度 Thickness of adhesive		um	25	25	0	/
剥离强度 Peel strength(90°)	外层	kgf/cm	> 1.5	> 1.5	/	IPC-TM-650 2.4.9
	内层		> 0.8	> 0.8	> 0.8	
耐化性 Chemical resistance (Dipping /10min)	IPA/NaOH / HCl	%	< 6	< 6	< 6	IPC-TM-650 2.3.2
耐焊锡性 Solder		/	300°C*10S			IPC-TM-650 2.4.13
卷曲 Curling	MD/TD	cm	≤5			IPC-TM-650 2.4.22
体积电阻 Volume resistivity	1000V	Ω-cm	> 1.0×10 ¹³			IPC-TM-650 2.5.17
表面电阻 Surface resistance		Ω	> 1.0×10 ¹²			
介电常数 Dielectric Constant	1MHz	/	3.4~3.8			IPC-TM-650 2.5.5.3
损耗因子 Dissipation Factor		/	0.015~0.025			
阻燃性 Flammability		/	V-0			UL94
储存性 Storage	真空密封包装；相对温度：< 30°C；湿度：< 70RH%；储存期：无胶 12 个月，有胶 6 个月 Vacuumed packaging; Relative Temperature: < 30°C; Humidity: < 70RH%; Storage period: Without Adhesive 12months ,With Adhesive 6 months					

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.



耐高温压克力胶胶带

High temperature resistant acrylic adhesive tape



产品特点

- 高温后无残胶
- 符合环保要求
- 耐热性能优异

Product Features

- No residual glue after high temperature
- Complies with environmental requirements
- Excellent thermal resistance

产品性能 Product Properties

测试项目 Test Item		单位 Unit	DGIA130	DGIA15050	测试方法 Test Method	
厚度 Thickness	胶厚度 Adhesive Thickness	um	30	50	东溢测试方法	
	膜厚度 Film Thickness		10	10		
	胶厚度 Adhesive Thickness		/	50		
剥离力 Peeling force (180°C)	快压后 After lamination(180°C *10S*120S*100kf)	PI 与 FCCL 的铜箔面	N/5cm	5.0 (无残胶 No Residue)	6.0/6.0 (无残胶 No Residue)	东溢测试方法
	固化 Curling (200°C*2hr)			6.0 (无残胶 No Residue)	7.0/7.0 (无残胶 No Residue)	
应用领域 Application		1、SMT 制程保护 SMT process protection ; 2、软硬结合板压合制程铜面保护 Copper Surface Protection for soft and hard bonding process in Compression process ; 3、制程选镀的铜面保护 Copper Surface Protection for process selective plating.				

注：以上数据仅供参考，详见检验报告。

Note : Data shown above are nominal values for reference only, for details please refer to COA.

