

SD Flex Pyralux AC Copper-Clad Laminate

A II-Polyimide Flexible Laminate

Description

Pyralux AC, 2LAYER (FCCL), Pyralux AC FCCL, Chip on Flex, Multilayer Flexible, Rigid Flexible 가 (FPCB) Pyralux AC 가

Table 1

Single-Sided Pyralux AC Product Offerings

Product Codes	Copper μm (oz/ft ²)	Copper Type	Polyimide μm (mil)
AC181200R	18 (1/2)	RA	12 (0.5)
AC182000R	18 (1/2)	RA	20 (0.8)
AC182500R	18 (1/2)	RA	25 (1)
AC121200E	12 (1/3)	ED	12 (0.5)
AC122000E	12 (1/3)	ED	20 (0.8)
AC122500E	12 (1/3)	ED	25 (1)

Certified to PC-FC-241/11: "Flexible Metal-Clad Dielectrics (Polyimide-Adhesiveless)."

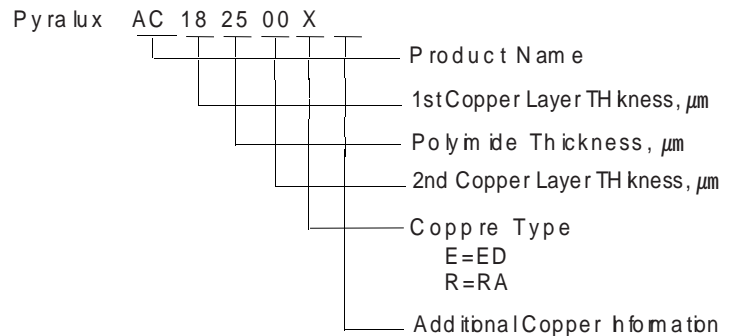
Specifications

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-
-
-
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- /
-
- UL 94 V-0

Table 2.

가

Product Code Description



Constructions

Pyralux AC Table 1.
12~45 μm , (RA)
1/2~1 oz/ft² (18~35 μm), (ED)
1/3~1 oz/ft² (12~35 μm)

Packaging

(Roll) Pyralux AC 250mm (9.84 in)
500mm (19.68 in)
9.5cm 50m (164 ft) 100m (328 ft)
가 100% 가

Table 2
Pyralux AC Material Properties

Property	Typical Value	Test Method
Adhesion to cu (Peel Strength ¹) AS Received, N/mm (lb/in) After soldering, N/mm (lb/in)	1.19 (6-7) 1.19 (6-7)	IPC - TM - 650, Method 2.4.9 Method B Method D
Solder Floot 10sec at 288 (550)	Pass	IPC - TM - 652, Method 2.4.13 Method B
Dimensional stability, %	-0.02 -0.04	IPC - TM - 650, Method 2.2.4 Method B, % Method C, %
Dielectric constant (at 1 MHz)	3.7	IPC - TM - 650, Method 2.5.5.3
Dissipation Factor (at 1 MHz)	0.0014	IPC - TM - 650, Method 2.5.5.3
Dielectric Strength, kV/mm (KV/mil)	200 (4.9)	ASTMD - 149
Volume Resistivity (damp heat), megohm	10	IPC - TM - 650, Method 2.5.17.1
Surface Resistance (damp heat), megohm	10	IPC - TM - 650, Method 2.5.17.1
Moisture Absorption, %	0.94	IPC - TM - 650, Method 2.6.2
CTE, ppm /	19	ASTMD - 696 - 91
CHE, ppm /% RH	8.0	
Propagation Tear Strength ² , g	3.0	IPC - TM - 650, Method 2.4.17.1
Initiation Tear Strength ³ , g	400 - 700	IPC - TM - 650, Method 2.4.16
Tensile Strength, Mpa (kpsi)	193 (28)	IPC - TM - 650, Method 2.4.19
Tensile Modulus, Mpa (kpsi)	7580 (1100)	ASTMD - 882 - 91
Elongation, %	21	IPC - TM - 650, Method 2.4.19
Flammability	V-0	UL - 94

¹ Peel strength method is 180° instead of 90°

² With exception to IPC - TM - 650, Method 2.4.17.1, Propagation Tear Strength

³ With exception to IPC - TM - 650, Method 2.4.16, Initiation Tear Strength

Processing

Pre-peg

가 가

Pre-pre 가 Pre-peg

Storage Condition/She lf Life

Pyralux AC 4-29 70%

1

Safe Handling

Pyralux AC

가 Pyralux AC

가	가
FCCL	Pyralux AC
가	
Pyralux AC	
	(가)
	Pyralux AC
Pyralux AC	(PBBs)
	(PBBOs)

Figure1. Typical Dimensional Stability at 200 (392)
(25µm dielectric, 18µm Cu)

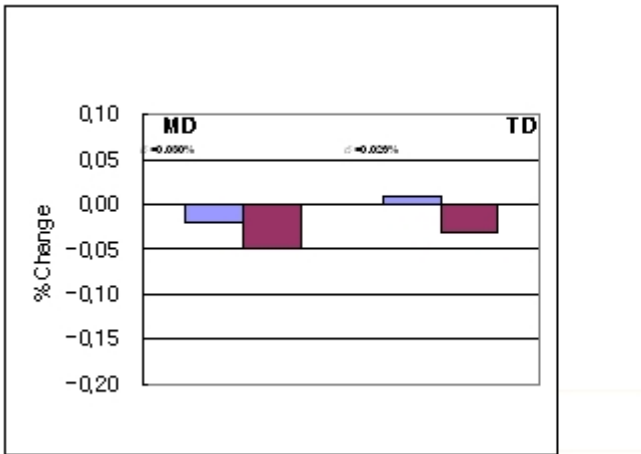


Figure2. Typical Bond Strength - Pyralux AC182500R

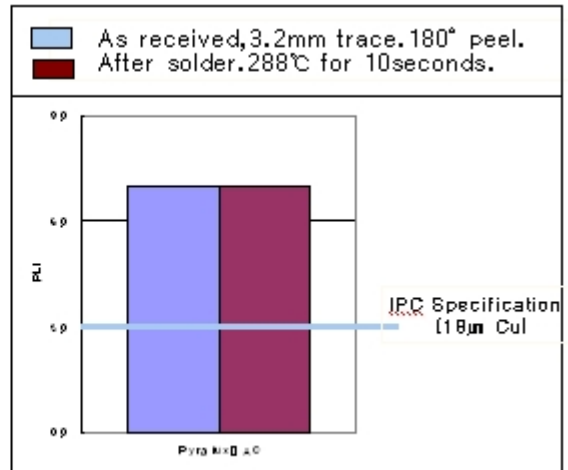


Figure3. Temperature/Humidity Aging at 85 (185)/85%RH
for 2,000 hours

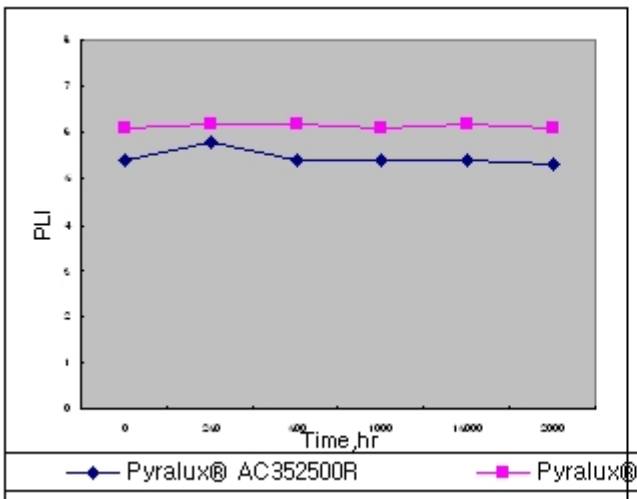
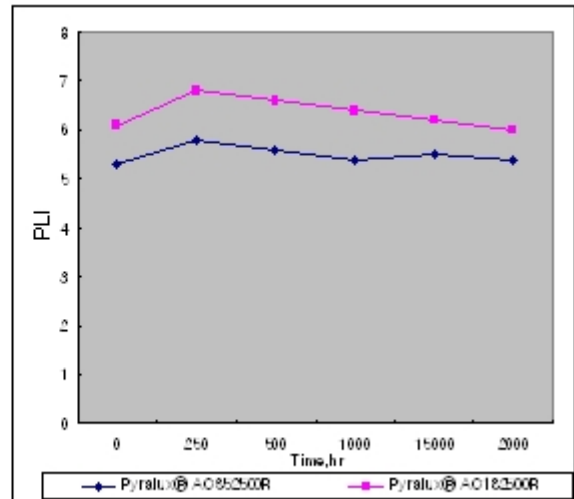


Figure4. Temperature/Humidity Aging at 150 (302)
for 2,000 hours



SD Flex

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[http:// www .sd flex .com](http://www.sdflex.com)