



Product Specification

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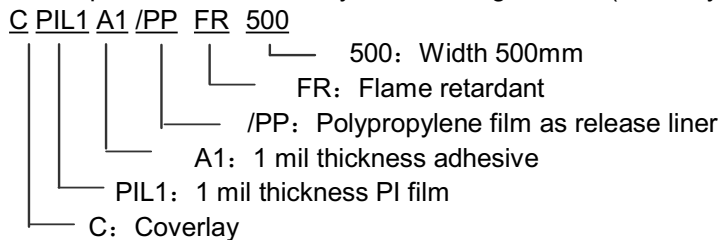
CPIX F R Flame Retardant & RoHS Coverlay of Polyimide with Adhesive

1. Description & Designation:

CPIX FR product consists of PI film coating adhesive clad release film. It includes various types according to different thickness PI film, adhesive and release film utilized to meet the specific needs of customers.

Materials		Thickness	Supplier
Base film	Polyimide film	0.5, 1.0 and 2.0 mils (0.0125, 0.025, 0.050mm) etc.	China, etc.
Release Film	PP Film	2.0 mils (0.050mm) etc.	Toray of USA
	Release Paper	Cover PE in double sides and release on one side	Japan, Taiwan
Adhesive	Acrylic adhesive	Translucence, Thickness 0.5 2 .0 mils (0.0125 0.050mm) etc.	USA, Japan

- Some special types appointed by customers can also be produced besides the common types listed in the above form.
- CPIX FR product is identified by the following method (X is may different letter for the different PI supplier):



2. Features & Applications:

CPIX FR products are widely used in flexible printed circuits board of PI film as coverlay with the following features.

- Meet the RoHS requirement and pass SGS certificate.
- Good electrical property, high bond strength to copper circuit traces, and excellent dimensional stability.
- Low flow system that minimizes adhesive squeeze out.
- Very competitive price under keeping good performance.
- The appearance and dimension stability are not good as the series of CPIFR because the limited PI quality.

3. Package

- Standard roll: 50+0.25 or 100+0.25 square meters per roll, maximum 2 splices and minimum 20m distance during two splices.
- Standard width: 500mm width except the customer's special instruction within the maximum width 500mm.
- Inner diameter core: 6 inches (152mm) or 3 inches (76mm), packed in carton and outside wrapped with PE film.

4. Storage:

- Storage time: 12 months since production date; please use after inspection again passed for the materials over the storage time.
- Recommended storage condition: temperature 68 86? (about room Temp. and cool no needed), maximum relative humidity 75%.

CPIXF R Flame Retardant & RoHS Coverlay of Polyimide with Adhesive Data Sheet of Performance

Property To Be Tested	Test Method	Typical Product Value CPI(L)1A1/PP FR	Typical Product Value CPI(Y)3A1/PP FR
*Peel strength, minimum, lb./in. width As received	IPC TM 650 2.4.9 Method B	8.0	8.0
After sold float	Method D	8.0	8.0
Tensile strength, minimum lb./in. ²	IPC TM 650 2.4.19	12,800	17,800
Elongation, minimum percent	IPC TM 650 2.4.19	80	60
Dimensional stability, maximum, percentage,	IPC TM 650 2.2.4 Method B Method C	+/- 0.10 +/- 0.25	+/- 0.10 +/- 0.25
Adhesive Appearance	By eye	Translucence	Translucence
Adhesive Thickness	Q000463	0.025mm	0.025mm
Adhesive flow, maximum (squeeze out in inch),	IPC TM 650 2.3.17.1	3 mils/mil	3 mils/mil
Flammability	IPC TM 650 2.3.8.1	FR, No certificate	FR, No certificate
Volatile content, maximum percentage,	IPC TM 650 2.3.37	3.0	3.0
*Solder float	IPC TM 650 2.4.13	550? 30seconds Pass	550? 30seconds Pass
*Chemical resistance, percentage	IPC TM 650 2.3.2	90	90
Dielectric constant, maximum (at 1 MHz)	IPC TM 650 2.5.5.3	3.0	3.0
Dissipation factor, maximum (at 1 MHz)	IPC TM 650 2.5.5.3	0.04	0.04
Volume resistivity, minimum, megohm cm	IPC TM 650 2.5.17	10 ⁶	10 ⁶
Surface resistance, minimum, megohms	IPC TM 650 2.5.17	10 ⁵	10 ⁵
Dielectric strength, minimum, volts/mil	ASTM D 149	2000	2000
Insulation resistance, minimum, megohms, at ambient	IPC TM 650 2.6.3.2	10 ⁴	10 ⁴
Moisture and insulation resistance, minimum, megohms	IPC TM 650 2.6.3.2	10 ³	10 ³
*Moisture absorption, maximum, percent	IPC TM 650 2.6.2	4.0	4.0

Mark:

- (1) * These data are applied to the relevant coverlay laminate with 1Oz/SF ED copper.
- (2) Recommended laminating cycle is 330 340°F for 45 60 minutes at 215 285 psi.
- (3) Above data sheet are base on the typical products values. The final data for specific products supplied, please check the testing report attached with the shipment. These data are only for user's reference. The user should determine the suitability of JJFlex CPIX FR materials for each application.