

Технологические параметры FR-2/JIS PP3F

Features

- Less odor
- Halogen-free, Friendly to the environment.
- High CTI over 600V
- Superior heat and humidity resistance
- Suitable for punching at 40-70 °C
- Warp and twist are small and stable.

General Properties

Test Item	Unit	Test Condition	Testing Method	Specification	Typical Value
Solder Resistance	Sec	A	JIS C 6481	>10	20—30
Heat Resistance		130 °C 30min	JIS C 6481	No Change	No Change
Peel Strength (Copper Foil 35 μm)	kgf/cm	A 260C 10Sec	JIS C 6481	>1.2	1.8~2.0 1.7~1.9
Flexural Strength	Lengthwise	A	JIS C 6481	≥8	14~16
	Crosswise			≥8	13~14
Volume Resistivity	Ω -cm	C-96/20/65 C-96/20/65+ C-96/40/90	JIS C 6481	5x10 ¹⁰ 5x10 ⁹	1.0X10 ¹² ~10 ¹³ 1.0X10 ¹² ~10 ¹³
Surface Resistivity	Adhesive Side	C-96/20/65 C-96/20/65+ C-96/40/90	JIS C 6481	1x10 ¹² 1x10 ^u	1.0X10 ¹² ~10 ¹³ 1.0X10 ¹¹ ~10 ¹²
	Laminate Side	C-96/20/65 C-96/20/65+ C-96/40/90		1X10 ¹¹ 5x10 ⁸	1.0X10 ¹¹ ~10 ¹² 1.0X10 ¹⁰ ~10 ¹¹
Insulation Resistance	Ω	C-96/20/65 C-96/20/65+ D-2/100	JIS C 6481	1X10 ¹¹ 1x10 ⁸	1.0X10 ¹¹ ~10 ¹² 1.0X10 ⁹ ~10 ¹⁰
Chemical Resistance		3% NaOH 40 C 3min	JIS C 6481	No change	No Change
		Boiled in trichloroethylene for 3 min	JIS C 6481	No change	No Change
Moisture Absorption	%	E-24/50+ D-24/23	JIS C 6481	<0.75	0.5—0.75
Flammability	Rating	A	UL94	UL94 V-0	V-0
Dielectric Constant (1 MHz)		C-96/20/65 C-96/20/65+ D-24/23	JIS C 6481	<5.0 <5.3	3.5~5.0 4.0~5.3
Dissipation Factor		C-96/20/65 C-96/20/65+ D-24/23	JIS C 6481	<0.04 <0.05	0.025—0.035 0.030—0.045
CTI Value	V	0.1% NH ₄ CL	IEC 112	600	>600
Punching Temperature	°C	A	GB/T4722	40-70	40-70

Remarks: Typical values for reference only Stand values according to JIS-C-6485

- A = Keep the specimen originally without any process
 C = Temperature and humidity conditioning
 D = Immersing in distilled water with temperature control.
 E = Temperature conditioning