

## Polyimide-ink for screen printing

### Introduction of Q-IP-1022E

**Application : Cover lay for FPC, etc.**

#### 1-1) Outline

### 1.Outline and Feature

Q-IP-1022E, which is a polyimide ink for screen printing (non-Si ink), is a polyimide ink for screen printing for FPC coverlay. It can dry at relatively low temperature different from existing polyimide and urethane inks. It has high electric reliability and flexibility; therefore, it is perfect for insulating film for dense circuit.

#### 1-2) Feature and General properties

Because of non-silicone material, this type of material has extremely low concern about contact failure caused by outgas.

This is a halogen-free material, and substances prohibited by the Directive on the Restriction of the use of certain Hazardous Substances in electrical equipment (RoHS Directive) are not used.

Low curling is possible because of small stress to the base material due to low elasticity.

Item	Unit	Properties	Remark
Appearance	-	Yellowish brown	
Viscosity	mPas	20,000~50,000	B Type Viscometer、 at 24℃
Solid contents	%	24~34%	
Solvent	-	GBL and BCA	

### 2.Properties

Item	単位	properties	Remark
Tg	℃	<b>104</b>	TMA
CTE	ppm	<b>360</b>	TMA
Thermal decomposition temp.	℃	<b>313</b>	Td5
Elastic modulus	Gpa	<b>0.42</b>	JIS C 2151
Elongation	%	<b>Over 150</b>	JIS C 2151
Strength	Mpa	<b>33</b>	JIS C 2151

### 3.Usage instruction

Process	Terms
Product type	1liquid type
Strage	Dark place(0~10℃)
Printing	Depending on printing machine, mask, squeegees to be used. Please use it at the environment of humidity less than 55%.
Drying	120℃×30~60min+180℃×30~60min

### 4.Contact

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