

# Q-PILON®

Block Co-Polyimide  
The Ultra-high heat resistant resin with unlimited potential

## Polyimide modified Epoxy Bonding sheet Introduction of Q-BF-9100G

**Application : Insulation Layer for Multi layer FPC ,Flex rigid, etc**

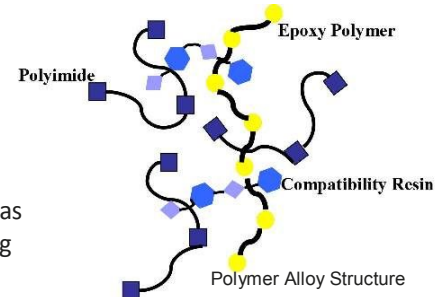
### 1-1)Outline

## 1.Outline and Feature

### 1-2)Feature

Multilayer FPC and the interlayer insulation film for flex rigid. The main ingredients are epoxy resin and polyimide resin. It has been polymer-alloyed by using our original denaturation technology

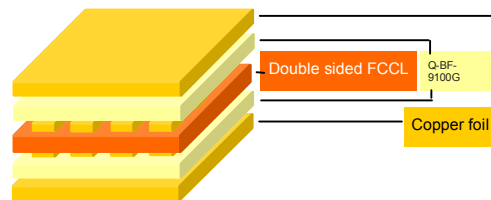
Excellent in heat resistance and flexibility of polyimide, and compatible with excellent in processability of epoxy. Moreover, It's not only correspond to multilayering as well as vacuum press fabrication, but also at the vacuum laminating machine, and it also contribute to reduction of process expense



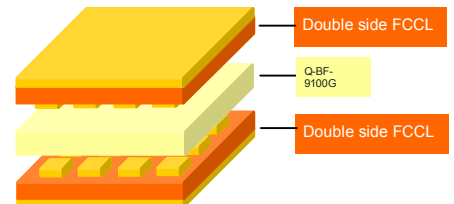
## 2.Application

### 2-1)Multi layer FPC

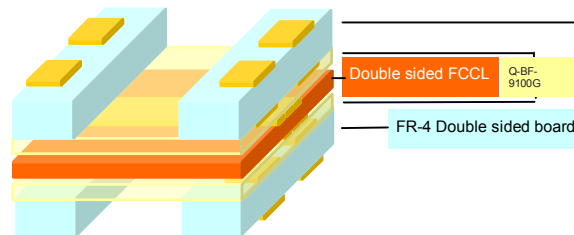
#### 1 core 4 layer Multi layer FPC



#### 2 core 4 layer Multi layer FPC



### 2-2)Flex rigid



This product, joint with FCCL and CCL, also serve a function of cover-layer. Thinner and process shortening are also possible.

## 3. Physical properties

Item	Unit	Feature	Remark
Glass transition point	°C	142	TMA
Heat expansion coefficient	ppm/°C	70	α1、TMA
		250	α2、TMA
Elastic-modulus	GPa	1.8	JPCA-BU01-2007
Tensile strength	MPa	87	JPCA-BU01-2007
Elongation	%	10.8	JPCA-BU01-2007
Peel strength	kN/m	1.0	18um VLPCopper foil
Thickness	um	15,20,25,30,40,50	Micrometer, Postforming

#### Vacuum press condition

Forming condition : 130°C×30min / 0.5MPa  
+190°C×75min / 2MPa

#### Vacuum laminate condition

110°C×30sec./ vacuum  
+ 110°C×30sec./ 0.8~1.0MPa  
Cure condition : 130°C×30min+190°C×75min

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## 4.Usage instruction



## 4.Contact

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