



# FB001

## UV-curing Adhesive for Metal and Plastics Bonding

UL File No. E354546

### Features

- FB001 is photo-curing adhesive designed for the bonding of computer connector PVC/PET/PI and metal connector. The connector will not peel off and short-circuit when the connector is bending.
- This resin is suited for bonding of ABS, PC, PVC and FPC.
- Fast curing under the ultraviolet. Great adhesion and toughness after cured.
- RoHS compliant, also is UL94 V-0 Recognized.

### Physical Properties

Appearance	:	Foggy white to Light yellow liquid
Viscosity	:	@25°C, S14 50rpm
	:	@25°C, S14 5rpm
Thixotropic Index	:	2.9 ~ 4.5
Specific Gravity	:	@25°C
Hardness	:	@25°C, ASTM D2240-03
	:	@25°C, ASTM D2240-03
Recommended Wavelength	:	310 ~ 365 nm
Minimum Light Intensity	:	>50 mW/cm <sup>2</sup>
Minimum Light Energy	:	1,000 ~ 2,000 mJ/cm <sup>2</sup>
Temperature Range	:	-20 ~ 80°C
Glass Transition Temperature(Tg)	:	MDSC
Coefficient of Thermal Expansion	:	41°C
	:	-10~10°C
	:	440 µm/m/°C
Thermal Conductivity	:	0.15 W/mK
Volume Resistivity	:	@25°C, 500V
Surface Resistivity	:	@25°C, 500V
Tensile Strength	:	9.81 x 10 <sup>10</sup> ohm-cm
Dielectric Constant	:	4.77 x 10 <sup>11</sup> ohm
	:	27 kgf/cm <sup>2</sup>
	:	@30°C, 1Hz
	:	23.35
	:	@30°C, 10Hz
	:	12.7
	:	@30°C, 60Hz
:	8.647	
Refractive Index	:	@30°C, 100Hz
	:	7.928
	:	@30°C, 1KHz
	:	5.905
	:	@30°C, 10KHz
	:	4.66
Elongation	:	nD20
Shelf Life	:	1.4788
	:	154%
	:	@14~34°C, Unopened
	:	1 year

### Handling & Storage

- For high strength bonding, clean the contact surface to remove dust, grease and all other contaminants before applying the adhesive.
- Curing time varies depending on object sizes and types, glue line thicknesses and the wave-length and output wattage/light intensity of the UV lamp used. User needs to evaluate the time needed based on the actual operation.
- FB001 should be stored in the shade and a cool place. Avoid the contact with any light (including ultraviolet ray). Put the lid back on immediately after each use to prevent any possibility of light exposure, which will affect the product performances.



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JA2202-498