

TECHNICAL DATA

ThreeBond 3301F

Electro-Conductive Adhesive

ThreeBond 3301F is a solvent type electro-conductive one part epoxy resin that cures when heated.

Features

- (1) Can be used for Pin bonding and Surface bonding
- (2) One-part epoxy silver filled resin
- (3) The resin cures under heating
- (4) Low out-gassing type

Uses

- (1) Fixing Quartz parts
- (2) Pin bonding and Surface bonding

Properties

Before cure

Test item	Unit	Specification	Test method	Conditions
Appearance	-	Silver	3TS-201-02	-
Viscosity	Pa·s	23	3TS-210-02	BH Spindle No.6 @ 10rpm
Thixotropic Index	-	1.0	-	BH Spindle No.6 @ 2rpm/10rpm
Specific gravity	-	3.04	JIS K 6835	
Curing conditions	-	130°C x 40min Or 150°C x 30min		

All data given here were compiled to the best of our knowledge and are based on experiments and tests of our Company. We cannot guarantee the results obtained through the use of our products, and all products are sold and samples given without any warranty, expressed or implied, of fitness for any particular purpose or otherwise and upon condition that the user shall make his own tests to determine the suitability of the product for his purpose.

Characteristics

After cure

TB3301F (Curing conditions : 120°C X 60min)

Test item	Unit	Specification	Test method	Conditions
Volume resistivity	Ω.m	1~2 x 10 ⁻⁶	3TS-401-03	-
Pencil Hardness	-	4H	3TS-215-05	-
Shear strength	MPa	12	3TS-301-11	Fe/Fe
Gel time	min	20	3TS-223-01	120°C
Flowability	mm	2	3TS-212-21	120°C

- Those informations depend on pressure, temperature, humidity and dispensing conditions.
- Please, test the product on the real parts

Curing conditions

Temperature (°C)	110	120	130	140	150	
Standard Curing Time	60 min or more		40 min or more		30 min or more	
					160	170
					15 min or more	

How to use

- 1) Before opening the container let the product reach room temperature as otherwise the formation of dew might resulting. In order to obtain optimal results, remove humidity, fat and other impurities from the fitting surfaces. If the fillers in the product settle, stir it until uniform before use.
- 2) Dispensing conditions : Should use syringes or dispensing machine with a needle over 0.5mm diameter.
- 3) Curing conditions : Can be cured at a temperature between 120 ~ 170°C, but it depends always of the thickness and the substrate.

Handling Precautions

- (1) Keep away from children.
- (2) This product is flammable.
- (3) Harmful. Do not inhale or ingest. In the event that this product is ingested, consult a physician immediately.
- (4) In case of eye contact, do not blink or rub eyes. Wash under running water for about 15 minutes. Consult a physician immediately.
- (5) Do not incinerate, emits poisonous gas. Hazardous waste disposal professionals should handle disposal.
- (6) Please read direction and brochure carefully before use.

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- (7) Do not mix with organic solvent or other dilution material.
- (8) Do not pour the product into others containers. Do not return the product the product left unused to its container.
- (9) Some materials may be deteriorated by the use of the product. Ascertain in advance whether it does not affect the parts to which it will be applied. If any problem occurs, do not use it.
- (10) After using the product, store it with the cap tightly fitted to prevent deterioration or entry of foreign matter.
- (11) In case of abnormal reaction, stop using the product and consult a physician.
- (12) If using a large amount of this product or using for a long time, it is compulsory to ventilate the area well. If necessary, use mask, non-permeable gloves, and protective glasses.
- (13) Persons with allergies or who are sensitive should not use this product.
- (14) In case of contact with skin, wipe with a dry cloth and wash affected area with soap and warm water.
- (15) Please take the necessary precautions in storage and handling (refer to MSDS).

Storage

Avoid direct sunlight; store at low temperature (5 ~ 10°C) and humidity.

Disclaimer

For Industrial Use Only

(Do not use for household purposes)

- (1) The data contained in this report are obtained from experimental results, based on our test methods. We cannot assume absolute responsibility for accuracy and safety. Before using this product, use your own judgement to determine whether or not this product meets the requirements of the application and objectives. This includes the burden of responsibility and hazardous danger. The extent of the guarantee provides replacement for products, which are clearly unsatisfactory.
- (2) We assume responsibility for neither injury nor property damages resulting from the misuse of this product.
- (3) We do not assume responsibility without written notice or contract.