



## FH8801C

### Conductive Die Attach Adhesive

#### Material Description

FH8801C is a single component electrically conductive adhesive that cures by heat. It has fast curing at low temperatures with outstanding bond strength.

This material is recommended for use with chip bonding in microelectronic, MEMS and opto-electronic applications. This material is able to snap cure during in-line production.

#### Features & Benefits

- Conductive (thermal and electrical) post cure
- One component requires no mixing
- Fast curing
- High bond strength on a variety of substrates
- Suitable for fine pattern dispensing
- Excellent thermal performance
- Low outgassing
- High thermal stability
- Low Stress
- Jettable with high consistency
- Design for high speed dispensing

#### Recommended Cure

110°C for 90 seconds

Please contact H.B. Fuller for additional cure profiles

#### Packaging Sizes

10cc and 30cc syringes

#### Health & Safety Precautions

Please see the Material Safety Data Sheet (MSDS) for proper handling and disposal instructions.

Typical Uncured Properties	
Property	Value
Color	Silver
Chemistry	Acrylate
Consistency	Thixotropic Paste
Viscosity (mPa.s @ 25 °C)	8300
Thixotropic Index (TI)	3.9
Pot Life @ 25°C	24 hrs
Density (g/cc)	4.4

Typical Performance Properties		
Property	Method/Condition	Value
Glass Transition Tg, °C	TMA	120
Alpha 1, ppm/°C		70
Alpha 2, ppm/°C		134
% Weight Loss @110°C % Weight Loss @288°C	TGA	0.30 0.75
Die Shear Strength (MPa) (2x2mm silicon die, solder mask FR4)	Room Temp. 3X Pb Free Reflow 85°C/85%RH/240hr	22.0 38.8 33.1
Die Shear Strength (MPa) (2x2mm silicon die, Room Temperature)	Bare Cu substrate Bare FR4 substrate	28.8 24.7

Typical Electrical Properties (Cured)		
Property	Method/Condition	Value
Volume Resistivity, ohm cm	ASTM D-257	<0.0004

#### Storage & Shelf Life

FH8801C should be sealed and stored in the original container at -40 °C.

Shelf life of material is 1 year from date of manufacture.

### Connecting what matters.™

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North America  
+888-HBFULLER  
+888-423-8553

inquiry@hbfuller.com  
www.hbfuller.com