



## FH8621

### Epoxy Adhesive

#### Product Description

FH8621 is one-component, low temperature curing epoxy adhesive. This material features fast cure at low temperature, low shrinkage, high adhesive strength, and adhesion to a variety of substrates.

#### Features & Benefits

- One component; no mixing required
- Fast cure at 80°C
- Use for CCD/CMOS adhesion
- High and low temperature resistance

#### Cure Schedule

Cure schedule:

4 minutes at 80°C

9861-78 will cure faster with increased temperature. The curing temperature and curing time should be adjusted according to the heating device and the material to be bonded.

Please contact an HB Fuller representative for additional curing recommendations and process parameters.

#### Typical Uncured Properties

Property	Value
Chemistry	Epoxy
Color	Black
Specific Gravity	1.34
Viscosity at 25°C (cPs)	22,000
TI Value	4.60
Work life at 25°C / <60% RH	3 Days

#### Typical Physical Properties of Cured Material (material cured 30 minutes at 80°C)

Property	Value
Hardness, Shore D	80
Elongation at break (%)	1.8
Shear Strength (MPa)	19
Glass transition temperature, Tg (°C)	40
Coefficient of thermal expansion (ppm/°C)	$\alpha 1 = 66$ $\alpha 2 = 214$
Water absorption after 24hrs at 25°C (%)	0.12

#### Typical Electrical Properties of Cured Material

Property	Value
Dielectric Strength (kV/mm)	26.3
Dielectric Loss	
1KHZ	3.2/0.02
100KHZ	3.3/0.03
Volume resistivity (ohm-cm)	$5.2 \times 10^{15}$
Surface resistivity (ohm)	$1.9 \times 10^{16}$

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### Directions for use:

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1. Prior to bonding, surfaces must be free of any dust, oils, or other contaminants.
2. Bring material to room temperature (25°C) before using (typical thaw time for 30ml syringes is 2-4 hours). We do not recommend thawing the material more than 3 times.
3. 9861-78 is sensitive to humidity; do not expose the material to air for an extended period of time. The recommended relative humidity during dispensing is <60%.
4. If the material is left idle in the syringe tip for an extended period of time, the tip should be purged or solvent cleaned.
5. Seal any remaining material and store immediately at -18°C.

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### Clean-Up

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Equipment and any spillage can be cleaned promptly after use with a mixture of anhydrous isopropyl alcohol and acetone that should be discarded after each use.

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### Storage and Handling

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FH8621 should be stored at -18°C.  
Shelf life is a 6 months from date of manufacture, in original unopened containers

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### Health & Safety Precautions

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

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