



FH8008 Data Sheet

Electronic Materials Underfill Material

Material Description

FH8008 is a single component heat curable reworkable epoxy CSP/WLCSP underfill. It's designed for flowing quickly and filling full of the gap under the chip at room temperature. This material is easy to rework while possess the better adhesion and electrical properties.

Features & Benefits

- Fast cure at moderate temperature minimizing stress on components.
- Reworkable without damage to the attach pad
- High reliability design for portable device
- Single Component

Curing Profile

Recommended cure conditions:
8 minutes @ 150°C

Curing speed will vary depending on oven temperatures profile efficiency, printed circuit board thickness

Contact HB Fuller technical support for additional curing recommendations.

Typical Uncured Properties

Property	Value
Color	Black
Specific Gravity	1.15
Viscosity (Brookfield CP42 100 rpm @25°C, cps)	510
Working Pot Life (days)	3

Physical Properties of Cured Material(Cured at 120°C for 30minutes)

Property	Test Method	Value
Transition temperature (Tg), °C		108
Coefficient of thermal expansion, m/m·°C	ASTM E-831	$\alpha 1 = 89$ $\alpha 2 = 226$

Typical Electrical Properties (Cured)

Property	Test Method	Value
Dielectric Strength, kV/mm	ASTM D-149	25
Surface Resistivity, ohm	ASTM D-257	1.2×10^{16}
Volume Resistivity, ohm-cm	ASTM D-257	4.1×10^{16}

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Preparation for Material Usage

1. Do not open the package before complete the thawing.
2. Thawing to room temperature (25°C) before using.
3. Seal any remaining material and store immediately at -18°C.
4. We do not recommend thawing material more than three times.

Contact HB Fuller technical support for additional material handling recommendations.

Storage & Shelf Life

FH8008 is supplied in 30ml/syringes
It should be stored in a -18°C refrigerator.
Shelf life is 6 months from date of manufacture.

Clean-Up

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

Health & Safety Precautions

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

Note

The values noted in this data sheet are typical properties only and are not intended to be used as material specifications.
For assistance in writing a material specification please contact HB Fuller for future details.

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