



FH8050 Data Sheet

Electronic Materials

Corner Bonding Material

Material Description

FH8050 is an electrically insulating, one-component, epoxy encapsulant and bonding material.

It is designed to cure during lead-free solder reflow while allowing self-alignment of IC components. It improves mechanical reliability of hand-held devices.

Features & Benefits

- One-component
- Designed for automated dispense systems
- Low extractable chlorine
- Outstanding adhesion to most plastics and metals
- No impact self-alignment during lead-free soldering process

Typical Uncured Properties	
Property	Value
Color	Black Past
Specific Gravity	1.18
% Solids	100
Viscosity: (cps)	20,000
Tl value	6.2

Typical Cured Properties	
Property	Value
Hardness, Shore D	92
Tg, °C	115

Typical Electrical Properties	
Property	Value
Surface Resistivity, ohm	3.1×10^{16}
Volume Resistivity, ohm.cm	3×10^{15}
Dielectric Constant, @ 1MHz	3.5
Dissipation Factor @ 1 MHz	0.017

Curing Profile

Lead-free reflow with 260°C
 Contact HB Fuller technical support for additional recommendations.

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

inquiry@hbfuller.com
 www.hbfuller.com



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Storage & Shelf Life

FH8050 should be stored in a cool, dry place. Shelf life is a minimum of six months in unopened containers when stored at 25°C, or 1 year at 10 °C.

Clean-Up

Methyl ethyl ketone, iso-propanol and denatured alcohol may be used in any cleanup of uncured FH8050. A blend of solvents will perform better than simple solvents.

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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