

ALPHA[®] HiTech[®] CF12-4485B

Edgebond Epoxy


DESCRIPTION

ALPHA HiTech CF12-4485B is a one-component, low-temperature cure, edgebond epoxy system. It is designed to provide protection to the solder joint during mechanical stress. Edgebond is an excellent low-cost option to conventional underfilling process because capillary flow is not required. It provides the user with a balanced set of the following features and benefits:

- Excellent adhesion on FR4 board
- Lower temperature cure capability
- Halogen-free
- Complies with RoHS Directive 2011/65/EU

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

APPLICATION GUIDELINES

Storage	Thawing	Application	Curing
<ol style="list-style-type: none"> 1. Store at 1 to 10 °C to guarantee product stability 2. Upright Position, tip facing the bottom 	<ol style="list-style-type: none"> 1. Remove the syringe from the refrigerator. 2. Set aside at room temperature for 2 hours. 3. Do not open the cap before the product is sufficiently thawed. 4. Product should not be refrozen after thawed. 5. To prevent contamination of unused product, do not return any material to its original container. 	<p>ALPHA HiTech CF12-4485B can be effectively dispensed at room temperature condition.</p>	<p>For full property development, cure at the following conditions in a convection oven:</p> <p>≥30min @ 110 °C; ≥20min @ 120 °C; ≥15min @ 130 °C; ≥10min @ 150 °C.</p>

TECHNICAL DATA

Category	Results
Typical Uncured Material Properties	
Chemistry	Epoxy
Appearance	Black Paste
Viscosity (RVDV-II Brookfield, 30rpm @25 °C, cP)	5,000 to 7,000
Specific Gravity	1.1 to 1.2
Pot Life @ 25 °C, days	7
Shelf Life at 1 to 10 °C, months	6
Available Packaging	30cc & 50cc syringe
Typical Cured Materials Properties	
Glass Transition (T _g), °C via TMA	105
CTE (α_1), <T _g , ppm	56
CTE (α_2), >T _g , ppm	191
Hardness (Shore D)	80 to 90

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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