

# ALPHA<sup>®</sup> HITECH<sup>™</sup> AD13-9620B

## Low Temperature Adhesive

### DESCRIPTION

**ALPHA HiTech AD13-9620B** is a one-component, low temperature cure epoxy system. It is suitable for bonding heat sensitive devices.


READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

### FEATURES AND BENEFITS

The balance set of features and benefits for this material are:

- Fast Cure at low temperature
- Excellent Adhesion on Liquid Crystal Polymer (LCP) and metal substrates. It also able to bond well on Nylon (PA9T), and Polycarbonate surfaces.
- Excellent Drop Shock
- Halogen Free
- Complies with RoHS Directive 2011/65/EU

### APPLICATION GUIDELINES

Storage	Thawing	Application	Curing
1. Freeze at < -20 °C to guarantee product stability. 2. Upright Position, tip facing bottom 	1. Remove the syringe from the freezer. 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.	<b>ALPHA HiTech AD13-9620B</b> can be effectively dispensed at room temperature condition.	For full property development, cure at 85 °C and hold for a minimum of 20 minutes (convection oven).

**TECHNICAL DATA**

Category	Specification
<b>Typical Uncured Material Properties</b>	
Chemistry	Epoxy
Appearance	Black
Viscosity (Brookfield RV #7, 30 rpm @25 °C, cP)	8,000 to 18,000
Thixotropic Index	4.8 to 5.8
Specific Gravity	1.0 to 1.2
Pot Life @ 25 °C, days	3
Shelf Life at < -20 °C, months	6
Available Packaging	10cc, 30cc, 50cc syringe
<b>Typical Cured Materials Properties</b>	
Glass Transition (Tg), via TMA	40 ± 5
CTE ( $\alpha_1$ ), <Tg, ppm	60 ± 10
CTE ( $\alpha_2$ ), >Tg, ppm	180 ± 10
Hardness (Shore D)	65 to 75

**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 at AlphaAssembly.com**

**CONTACT INFORMATION**

**To confirm this document is the most recent version, please contact  
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www.macdermidalpha.com**

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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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