

ALPHA[®] HITECH AD43-9600W

Low Temperature Adhesive

DESCRIPTION


ALPHA HiTech AD43-9600W is a one-component, low temperature cure epoxy system. It is specially designed to adhere the lens onto a PCB bar for BLU (Back Light Unit) application.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Low Viscosity
- Fast Flowing
- Fast Cure at low temperature
- Excellent Adhesion on Nylon (PA9T), Liquid Crystal Polymer (LCP) and metal
- Halogen Free
- Complies with RoHS Directive 2011/65/EU

APPLICATION GUIDELINES

Storage	Thawing	Application	Curing
<ol style="list-style-type: none"> 1. Freeze at < -20 °C to guarantee product stability. 2. Upright Position, tip facing bottom 	<ol style="list-style-type: none"> 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. 	<p>ALPHA HiTech AD43-9600W can be effectively dispensed at room temperature condition.</p>	<p>For full property development, cure at 80 °C and hold for a minimum of 2 minutes (reflow oven).</p>

TECHNICAL DATA

Category	Specification
Typical Uncured Material Properties	
Chemistry	Epoxy
Appearance	White
Viscosity (RVDV-II Brookfield #7, 30 rpm @25 °C, cP)	30,000 to 50,000
Specific Gravity	1.2 to 1.4
Pot Life @ 25 °C, days	5
Shelf Life at < -20 °C, months	6
Available Packaging	10cc, 30cc, 50cc syringe
Typical Cured Materials Properties	
Glass Transition (T _g), via TMA	55 ± 5
CTE (α ₁), <T _g , ppm	65 ± 5
CTE (α ₂), >T _g , ppm	190 ± 10
Hardness (Shore D)	70 to 80

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 MacDermidAlpha.com/assembly-solutions/knowledge-base.**

CONTACT INFORMATION

**To confirm this document is the most recent version, please contact
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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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