# ALPHA® HiTech® UP44-5566T

**Ultraviolet Cure Adhesive**

## DESCRIPTION

**ALPHA HiTech UP44-5566T** is a one-component UV cure system. It is suitable for fast curing and bonding in various applications such as coating and fixing of components.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

## FEATURES AND BENEFITS

ALPHA HECH UP44-5566T provides the user with a balanced set of the following features and benefits:

- Fast Cure under a UV Light Source
- Excellent Adhesion
- Halogen Free
- Complies with RoHS Directive 2011/65/EU

## TECHNICAL DATA

| Category | Results |
|---|---|
| **Typical Uncured Material Properties** | |
| Chemistry | Urethane Acrylate |
| Appearance | Pale Yellow Paste |
| Viscosity (RVDV-II Brookfield #6, 30rpm @ 25 °C, cP) | 8,000 to 18,000 |
| Thixotropic Index | 4.5 to 6.5 |
| Specific Gravity | 1.0 to 1.2 |
| Pot Life @ 25 °C, days | 7 |
| Shelf Life at 1 to 10 °C, months | 6 |
| Available Packaging | 10cc, 30cc syringe |
| **Electrical Properties** | |
| Glass Transition (Tg), °C via TMA | 65 ± 5 |

| Category | Results |
|---|---|
| CTE (α1), <Tg, ppm | 80 ± 10 |
| CTE (α2), >Tg, ppm | 220 ± 20 |
| Hardness (Shore D) | 65 to 75 |

## PROCESSING GUIDELINES

| Storage & Handling | Thawing | Application | Curing |
|---|---|---|---|
| 1. Store at 1 to 10 °C to guarantee product stability.<br>2. Upright Position, tip facing bottom<br><br>3. Product is light-sensitive. Exposure to daylight, UV light and artificial lighting should be kept to a minimum. | 1. Remove the syringe from the refrigerator.<br>2. Set aside at room temperature for 2 hours.<br>3. Do not open the cap before the product is sufficiently thawed.<br>4. To prevent contamination of unused product, do not return any material to its original container. | ALPHA HiTech UP44-5566T can be effectively dispensed at room temperature condition. | For full property development, cure under Metal Halide Lamp at 200mW/cm$^2$, 365nm and hold for a minimum of 10 seconds. |

## 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

**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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