

ALPHA[®] HITECH[™] UP44-5130

Ultraviolet Cure Encapsulant

DESCRIPTION

ALPHA HiTech UP44-5130 is a one-component UV cure product designed for high reliability in both water resistance and chemical resistance. It has appeared fast curing and various bonding performance such as coating or fixing the component. It is consisted of fluorescent substance for optical inspection.


READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

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

- Excellent Workability
- Fast Cure
- Excellent Moisture Resistance
- Excellent Visible Inspection process
- Halogen Free
- Complies with RoHS Directive 2015/863/EU

APPLICATION GUIDELINES

Storage	Thawing	Application	Curing
1. Store at 1 to 10 °C to guarantee product stability. 2. Upright Position, tip facing bottom  3. Do not exposure any light material like sun light and artificial light.	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 thawed. 4. Do Not return any material into original container not to contaminate.	ALPHA HiTech UP44-5130 can be effectively dispensed at room temperature condition.	For full property development, cure under Metal Halide Lamp at 300mW/cm ² , or 365nm and hold for a minimum of 8 seconds.

TECHNICAL DATA

Category	Tentative Specification
Typical Uncured Material Properties	
Chemistry	Urethane Acrylate
Appearance	Translucent Paste
Viscosity (Brookfield RTV @25 °C, 30rpm, cP)	15,500
Specific Gravity	1.0 – 1.2
Pot Life @ 25 °C, days	7
Shelf Life at 1 to 10 °C, months	6
Available Packaging	10cc, 30cc syringe
Typical Cured Materials Properties	
Glass Transition (Tg), °C via TMA	25 ± 5
CTE (α ₁), <Tg, ppm	90 ± 10
CTE (α ₂), >Tg, ppm	230 ± 20
Hardness (Shore D)	20 to 30

*Note: The values on the table are intended as a reference. It is not absolute value.

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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