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# FLASHBOND™

## UV-5400LV

### LIGHT CURABLE EPOXY

**TECHNICAL DATA** **NOVEMBER 2021**

#### Product Description

UV-5400LV is a filled, low viscosity, light curing epoxy adhesive that offers low CTE and high bonds strength. UV-5400LV cures quickly to a high bond strength polymer with excellent adhesive to metals, ceramics, and glass. This epoxy was specifically designed as a fill material for dam & fill encapsulation of chip modules on PCBs and smart cards. This material is solvent free and has high ionic purity. UV-5400LV should be used in conjunction with UV-8300T when used in dam & fill applications.

#### APPLICATIONS

- Dam & Fill
- General Bonding
- General Encapsulant

#### FEATURES

- Passes 1000 cycles 85% RH/85°C
- Halogen Free (IEC 61249-2-21)
- High Bond Strength
- RoHS & REACH Compliant

#### SUBSTRATES

- FR4
- Metals
- Glass

#### PACKAGING

- Syringes
- Bulk

TYPICAL PROPERTIES OF UNCURED MATERIAL	
Property	Value
Chemical Class	Cationic Epoxy
Color	Natural White
Viscosity, 25°C, cPs	2500 - 4500
Density, g/mL	1.37
Filler Type	Mineral

TYPICAL PROPERTIES OF CURED MATERIAL	
Property	Value
Glass Transition Temperature (Tg), °C	72
Hardness, Shore	D-78
Ultimate Tensile Strength, PSI	5,000
Elongation at Break, %	1-3
Operating Temperature Range, °C	-55 to 150
Volume Resistivity, Ω-cm	1 x 10 <sup>14</sup>

**\*All properties given are typical values and are not intended for use in preparing specifications.**

CURE OVERVIEW	
Optimal Wavelength	UV/LED 310nm-365nm
Optimal Intensity	100-300 mW/cm <sup>2</sup>

\*Cure time is dependent on light intensity and lamp type. Test specimens were cured for 30 seconds at 150 mW/cm<sup>2</sup> under a 365nm LED light.

### SHIPPING, SHELF LIFE, STORAGE

STORE AT 2-10°C, SHELF LIFE: 6 MONTHS  
 MATERIAL IS LIGHT & HEAT SENSITIVE. CONSULT SDS FOR SAFE HANDLING RECOMMENDATIONS.

### THIS MATERIAL IS SOLD FOR INDUSTRIAL USE ONLY

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