



60-7107

UV Curable Low CTE Encapsulant

DESCRIPTION:

UV Cure 60-7107 is a one-component UV curable encapsulant, adhesive, and coating. This epoxy is an electronic grade material designed for applications requiring a low Coefficient of Thermal Expansion (CTE).

UV Cure 60-7107 has excellent dielectric properties, high chemical and thermal stability. This system is 100% solids and has the ability to shadow or heat cure.

FEATURES:

- UV Curable, Fast Cure
- One Component
- Will Shadow Cure
- Low CTE
- Low Ionic Impurities
- Excellent Adhesion

TYPICAL PROPERTIES:

Viscosity, 25°C, cps	30,000 – 40,000
Color	Off White
Hardness, Shore D	90D
Operating Temp. Range, °C	-50 to +155
Solids Content, %	100
Specific Gravity, 25°C	1.70
Thixotropic Index	2.0 – 2.50
Dielectric Constant, 60 Hz	3.5
Dielectric Strength, V/mil	450
Volume Resistivity, ohms-cm	1.5×10^{15}
Coefficient of Thermal Expansion, CTE, ppm/°C	35
Glass Transition Temperature, °C	80
Extractable Ions, ppm	
CL	<10
Na	<10
K	<10



CURE SCHEDULE

UV 100 Spot Cure
UV Cure Conveyor

50 mil thick section
30 seconds - 5W power
2 passes 20 fpm - 300 Watts/in medium pressure
Hg Mercury Vapor Lamp

Cure speed is dependent upon the UV light source, thickness of material, distance from the light, and UV transmission of substrates through which the UV light must pass to reach the adhesive.

Cure speed may be increased by warming material or substrate. Cure speed may also be increased by IR or conventional thermal oven after UV exposure. For optimum curing of thick sections, a UV light source rich in long wavelength UV is recommended, such as electrode or electrodeless metal halide lamp.

STORAGE, HANDLING, & SAFETY:

Store out of sunlight in original container. Product shelf life under proper storage conditions is at least six months at 25°C. Avoid exposing material to moisture.

UV Cure 60-7107 contains fillers. Gentle stirring may be necessary to assure uniform filler distribution. Frozen storage will help to eliminate filler settling and is highly recommended if the product is packaged in syringes.

Please read the Safety Data Sheet before using this or any other chemical.

AVAILABILITY:

UV Cure 60-7107 is available in 10cc, 30cc and 55cc Black Syringes, Pints, Quarts, Gallons and 5 Gallon Pails.

IMPORTANT:

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