

UV Conformal Coating Technical Data Sheet

BT5100UV-100

DESCRIPTION:

UV Cure BT5100UV-100 is a low viscosity conformal coating for Printed Circuit Boards (PCB's), components and various substrates. When exposed to long wave UV it forms a tough, clear and flexible coating. UV Cure BT5100UV-100 resists yellowing, vibration and impact.

UV Cure BT5100UV-100 does not contain any solvents and forms a smooth, non-sticky surface.

FEATURES:

- Fast Cure
- Low Viscosity
- Excellent Adhesion
- Good Water & Chemical Resistance

TYPICAL SPECIFICATIONS:

| | |
|---------------------------------|-------------|
| Color | Clear |
| Solids content, % | 100 |
| Dielectric Strength, Volts/mil | 425 |
| Viscosity, 25 °C, cps | 100 ±25 |
| Hardness, Shore D | 76 |
| Specific gravity, 25 °C | 1.125 |
| Operating temperature range, °C | -65 to +155 |
| Tensile strength, psi | 3,850 |
| Refractive Index | 1.49 |

CURE SCHEDULE

| | |
|----------------------------------|--|
| UV Black light, 40 watt, minutes | 10 (50 mils thickness) |
| UV 100 Spot Cure, seconds | 30 (50 mils thickness, 4 w/cm ²) |
| UV Cure Conveyor | 1 pass @ 20 FPM (300 WPI, 2 mil film) |
| Optimum wave length, nm | 300-400 |

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.

STORAGE & HANDLING:

Store out of sunlight in original container. Product shelf life under proper storage conditions is at least nine months at temperatures between 40-60 °F. Avoid exposing material to moisture.

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AVAILABILITY:

UV Cure BT5100UV-100 is available in 10cc, 30cc and 55cc syringes, Quarts, Gallons, 5 Gallon Pails and 55 Gallon Drums.

HYGIENE & SAFETY:

Low potential for skin and eye irritation or sensitization. iSee Safety Data Sheet (SDS) for more details on proper handling and precautions.

IMPORTANT:

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