

Sun Ray UVD-11 Clear Encapsulant

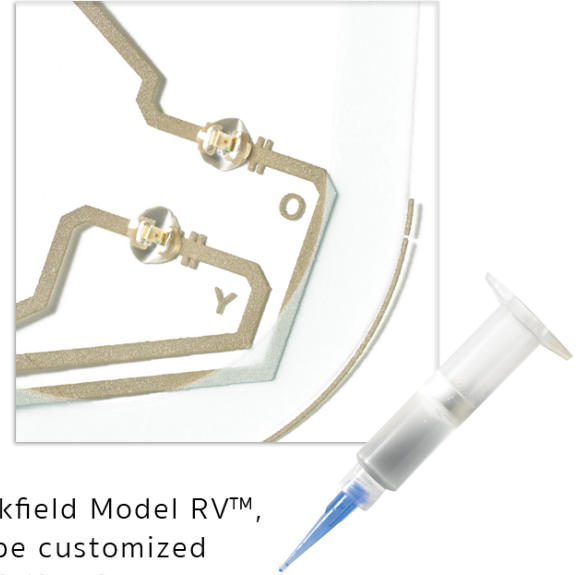
UVD-11 Clear Encapsulant was developed to provide additional mechanical strength in attaching a component to a substrate. It is a UV cured dispensable coating compatible with thermally cured epoxies and is suitable for both flexible and rigid substrates.

Advantages

- High bond strength
- Very flexible

Material Specifications

Viscosity:	18,000 cps typical @25°C, Brookfield Model RV™, #6 Spindle at 20 RPM, and can be customized
Shelf Life:	At 22°C this material has a shelf life of 3 months
Substrate:	This material adheres well to all flexible and rigid printed wiring board materials as well as to LED components
Percent Solids:	100%
Operating Temperature:	-40°C to 85°C



Processing Guidelines

Dispensing Equipment:	Semi or fully automatic
Curing Conditions:	600 ± 30 millijoules/cm ² (as measured with a Con-Trol-Cure Diskure 365 radiometer). Milljoules typical but customer should evaluate cure properties specific to their production equipment. Cured material should be dry to the touch and not be tacky
Cured Material Thickness:	2-4 mils
Clean Up Solvent:	Dry wiping is recommended and then an Isopropyl alcohol wipe
Thinner:	Not recommended to thin material

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Reliability Data

Characteristic	Test Condition	Results
Thermal Shock	-40°C to 70°C	No issues
Dry Heat	70°C for 500 hours	No issues
Low Temperature	-30°C for 500 hours	No issues
Temperature/Humidity	55°C/95% Rh - 85°C/50% Rh @ 70 days	No issues
Flowers of Sulfur	25 PPM - 65°C/85% Rh @240 days	No issues

Storage and Shelf Life

This polymeric material should be stored between 40 and 75 degrees Fahrenheit in unopened containers. Under these conditions, the material will be useable for three months. Once opened the material should be used within two weeks and unused material on screens should not be put back in the partially used container.

Safety and Handling

This product contains organic solvents and materials. The following precautions should be exercised when handling this material:

- Use with adequate ventilation
- Avoid prolonged skin contact
- Avoid prolonged breathing of vapors
- If contact with skin occurs, wash affected area immediately with soap and water
- Dangerous if swallowed - do not consume

NOTE: The data contained on this data sheet are furnished for the information only and are believed to be reliable. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned on this data sheet and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and the use thereof. Xymox Technologies specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from the sale or use of Xymox Technologies products.

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