



Manufacturer:
ÅngströmBond

Product Name:
ÅngströmBond AB9037 Plastic Bonding UV Cure Adhesive (3CC)

Manufacturer Part Number:
AB9037-3CC

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Adhesives

ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

ÅNGSTRÖMBOND® AB9037

Flexible, UV/Secondary Heat Cure Adhesive, Blue Fluorescing Encapsulant

Description:

ÅNGSTRÖMBOND® AB9037 is a flexible, acrylated urethane, thixotropic, chip encapsulant and adhesive. It fluoresces blue under black light. This UV/visible light + heat cure material can completely cure in seconds with UV and offers resistance to moisture and thermal cycling.

AB9037 has excellent adhesion to FR4, Kapton, Glass, PC boards and the substrates used for electronic components. It is especially well suited for chip on board, chip on flex, multi-chip modules and glob top applications.

Typical Properties:

Color:	Translucent gel (light yellow)
Viscosity @ 25°C, cps:	55,000
Hardness, Shore D:	40
Linear Shrinkage, %	2.2
Elongation at Break, %	110
Tensile at Break, psi	850
Modulus of Elasticity, psi	900
Coeff. of Exp below Tg, /°C	126
Coeff. of Exp above Tg, /°C	171
Operating Temperature, °C:	-55 to 150
Glass Transition, °C	31
Dielectric Breakdown, Volts/Mil	900
Volume Resistivity, Ohm-cm	2.95E+10
Surface Resistivity, Ohm	9.44E+10
Dissipation Factor, 1 MHz	0.03
Dielectric Constant, 1MHz	4.31
Water Absorption, %	0.9
Solids content, %	100

Handling Characteristics:

Cure time:

10 W/cm² - 1-3 seconds @320-450nm UV/Vis
10 W/cm² - 1-3 seconds @385nm LED

Heat cure shadowed areas after exposure to UV light:

110°C – 1 hour
120°C – 30 minutes
150°C – 15 minutes

Note: Cure schedules can vary slightly with different applications. Speed of cure depends upon thickness and light intensity. Lamps emitting high levels of shortwave light are not recommended. Please use these numbers as a basis to develop a schedule suitable for the application.

Storage and Shelf Life:

Store in a cool, dark place when not in use. Do not place in view of UV light source or sunlight. Material may polymerize upon exposure to ambient light.

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Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Product specifications and data are subject to change without notice.