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UV2030

UV Cure Non-Slumping Epoxy Adhesive

Typical Properties			
Property	Unit	Value	Test Method
Appearance		Opaque paste	Visual
Color of Component	Gardner Scale, Max	1	Visual & ASTM D1544
Density	Gram /cc	1.1	ASTM D792
Viscosity at 25°C	cps	82,000	ASTM D2196
Thixtropic Index		3	ASTM D2196
Property as Cured			
Appearance		Opaque solid	Visual
Color of Component	Gardner Scale, Max	1	Visual & ASTM D1544
Hardness	Shore D	78	ASTM D2240
Dielectric Constant	@1000Hz	4.0	ASTM D150
Dielectric Strength	Volt/mil AC	> 400	ASTM D149
Volume Resistivity (@24°C)	Ohm-cm	> 10E+13	ASTM D257
Coefficient of Thermal Expansion	ppm/°C	58 (<tg) 115 (>Tg)</tg) 	IPC-TM-650
Tg	°C	95	DMA
Adhesion (Glass to / Al lap shear)	Psi	> 760	ASTM D1002
Temperature Usage	°C	-80 to 180	TGA
Cure Profile			
UV A (220 and 365 nm) Mercury H bulb, 100mW/cm ²	second	~ 20	Durometer
UV A (300 to 365 nm) Iron D bulb, 120 mW/cm ²	second	~ 30	Durometer
Pot / Work Life at 25°C (no UV exposure)	Month	> 12	Viscosity double

These figures are only intended as a guide and should not be used in preparing specifications.

Characteristics

UV2030 is a non-slumping single part UV cure epoxy acrylate adhesive for electronic bonding applications. It can be cured rapidly in 20 seconds under medium intensity ultraviolet light of suitable wavelength. After cure it provides strong bonding to silicon, BGA, ceramics, FR4, LTCC, aluminum, copper, stainless steel, etc. with low shrinkage and low outgassing. Its anti-oxygen formulation yields shinning and smooth surface finish (non-stick) after UV cure. UV2030 can be used for bonding, sealing, and coating applications.

Special Features and Benefits

- Fast cure under UV exposure
- Non-slumping and not running
- · Low shrinkage
- Strong bonding to various substrates
- · Low bleeding, low volatile

Typical Applications

- Bonding of optical parts
- · Bonding for film lamination
- Seal lids, covers, housings, connectors
- · Conformal coating and sealing
- Aerospace & Automotive Electronics
- Semiconductor & Telecommunications

UV2030 has a shelf life of at least one year when stored in the originally sealed container without exposure to UV light.

Processing Instruction

Cure speed is dependent upon the UV light spectral distribution (e.g. 240 nm to 365 nm), intensity of light, thickness of material, distance from the light, and UV transmission of substrates through which the UV light passes to reach the adhesive.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions can be obtained by contacting directly to United Adhesives, Inc.

Storage

UV2030 has a shelf life of at least 12 months when stored in closed container without exposure to UV light. The 'Best use before end' date of each batch appears on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety information

General hygiene regulations should be observed. Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from United Adhesives, Inc.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose. For technical, quality, or product safety questions, please contact directly to United Adhesives Inc.

Version 1.00 / 08-26-2015 / UV 2030 Page 1 of 1