

CYBERLITE UV CURING ADHESIVES

The Power of Adhesive Information

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www.cyberbond1.com

Cyberlite UV Curing Adhesives and Sealants were developed to increase production speeds and eliminate in-process staging of components. These "cure on demand" adhesives immediately react to UV energy emitted from compact equipment, allowing them to easily fit even the most demanding production schedules. In developing our tailored line of UV adhesives, we understand the intricacies involved in every unique application we see. With that knowledge, our development team has produced an extensive field of products, each designed for a specific purpose. Couple this line with Cyberbond's dedication to customizing products for individual users, and our unparalleled technical support, and we are confident we have or can develop the perfect adhesive for your application.



Cyberlite Product Highlights

- ◆ Fast, consistently performing adhesives speed up production and throughput for a wide assortment of applications
- ◆ Joins dissimilar materials, allowing you the flexibility to use the most cost effective materials available
- ◆ Seals and bonds, providing secure joints
- ◆ On-demand curing allows as much or as little time needed to mate and cure your parts
- ◆ Clear adhesive formulations provide aesthetically acceptable appearances
- ◆ Wide selection of viscosities available, from wicking grade to large gap-filling materials
- ◆ May be formulated to include fluorescent tracers to aid detection under black light

Markets Served

Medical Device

Cyberbond's ISO/TS certifications and our commitment to quality make us an ideal choice for medical device manufacturers who need to meet stringent regulations for quality and consistency. With several off-the-shelf formulations approved for use in medical device assemblies per ISO 10993 & USP Class VI Biocompatibility requirements, and our ability to develop custom adhesive formulations with these regulations in mind, we can

help you find the perfect adhesive for your medical device assembly.

Electronics

As the electronics market continues to push for smaller, faster components, manufacturers' processes need to do the same. We have the ability to help electronics manufacturers speed production and quality control through our range of UV adhesives designed to bond, encapsulate, and seal electronic components.

General Assembly

Because we can bond a wide variety of substrates, Cyberbond's UV adhesives can be utilized in almost any manufacturing environment. Because they give you the ability to set your own curing parameters, these products are perfect for any company looking to increase throughput and eliminate the in-process staging caused by slower curing technologies. Let Cyberbond show you the **Power of Adhesive Information**.

Cyberlite UV and Light Curing Adhesives

Application	Product	Viscosity† (cP)	Color After Curing	Tack-Free Surface	Temperature Range (°C)	Optimal Wavelengths (nm)	Set Speed (seconds) 50 mW/cm2*	Recommended for use on:				Elongation	Shore Hardness		Product	
								PC	PMMA	Glass	PETG		Metal	A		D
Medical	U 301	30	Clear	Yes	-55 / + 120	300 - 420	< 3	●	○	●	●	●	150%	62	52	U 301
	U 303	2000 tx	Clear	Yes	-55 / + 120	300 - 420	< 4	●	●	●	●	●	400%	86	57	U 303
	U 305	1000	Clear	Yes	-55 / + 120	320 - 420	< 8	●	●	●	●	●	400%	70	34	U 305
	U 306	Thixotropic	Clear	Yes	-55 / + 120	300 - 420	< 4	●	○	●	●	●	25%	91	75	U 306
PETG Bonder	U 320	20 - 60	Clear	Yes	-55 / + 120	300 - 420	< 3	●	○	●	●	●	150%	63	54	U 320
	U 323	2000	Clear	Yes	-55 / + 120	300 - 420	< 5	○	○	○	○	○	70%	72	30	U 323
	U 325	2500	Clear	Yes	-55 / + 120	300 - 420	< 4	●	●	●	●	○	400%	85	55	U 325
Polycarbonate Bonder	U 331	200	Clear	Yes	-55 / + 120	300 - 420	< 4	●	○	●	○	●	200%	72	50	U 331
	U 333	900 - 1000	Clear	Yes	-55 / + 120	320 - 425	< 8	●	●	●	●	●	400%	73	36	U 333
	U 334	2500	Clear	Yes	-55 / + 120	300 - 420	< 3	●	●	●	●	●	400%	70	32	U 334
PMMA Bonder	U 340	200 - 300	Clear	No	-55 / + 120	300 - 420	< 4	●	●	●	●	●	200%	72	50	U 340
	U 343	1000	Clear	No	-55 / + 120	300 - 420	< 8	●	●	●	○	○	450%	68	15	U 343
	U 345	2000	Clear	No	-55 / + 120	300 - 420	< 6	●	●	●	●	●	275%	70	32	U 345
Glass Bonder	U 350	250 - 400	Clear	Yes	-55 / + 120	300 - 420	< 6	○	○	●	○	○	45%	82	35	U 350
	U 351	200	Clear	No	-55 / + 120	300 - 420	< 6	●	○	●	●	●	75%	78	45	U 351
	U 356	Thixotropic	Clear	Yes	-55 / + 120	300 - 420	< 4	●	○	●	●	●	25%	90	75	U 356

† ASTM D1048 Test Method B
* Polymerized with Cyberlite 4 LED lamp, 395 nm

Cyberbond specializes in the custom formulation of UV adhesives for unique applications. If you feel your application demands something special, please contact Cyberbond at 630.761.8900

CYBERLITE4 & LINOP U 400

LED-Based UV Curing Technique—A Revolution

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The recent surge in popularity of LED technology is easy to understand. From their use in simple household electronic equipment to the power they provide to today's sophisticated auto headlamps, LED's many advantages have inspired Cyberbond to harness this technology into the most versatile and advanced UV adhesive curing device in the world—the Cyberlite4 UV LED Lamp. This innovation offers all the benefits of LEDs, including:

- ◆ Extraordinarily long lamp life
- ◆ No warm-up period or wait time for full energy
- ◆ Minimal heat output
- ◆ Very low power consumption
- ◆ Extremely favorable size-to-performance ratio



Despite the obvious advantages of LEDs over more traditional light sources, the introduction and use of LED technology in the UV adhesive industry has been very cautious—until now.

With the introduction of the Cyberlite4 UV LED Lamp, Cyberbond will change the UV LED paradigm. This unique product combines extraordinary luminosity with unparalleled flexibility and ease of use.

Based on a 395nm wavelength¹ the Cyberlite4 UV LED Lamp is capable of illuminating an area approximately 30mm x 30mm from a distance of about 50mm. While these basic capabilities allow it to replace the typical spotlights used in UV curing, **the revolutionary advantage of the Cyberlite4 UV LED Lamp is that the light is generated inside the lamp itself.** Traditional UV spotlight arrays produce light in a main housing and distribute it to lamps by means of fiber optics. A great deal of energy is lost as light travels through these guides, requiring a much stronger lamp than is truly necessary to cure the adhesive. With the Cyberlite4, the UV light is produced next to the adhesive, saving energy, space and money. **The energy savings also make Cyberlite4 lamps the first truly green product in UV adhesive technology.**

¹ The Cyberlite 4 UV LED lamp will easily penetrate transparent plastics or glass, but must be used with adhesives that cure at a 395nm wavelength

Cyberlite4 UV LED Lamp Features:

- | | |
|--|---|
| ◆ Lightweight/portable | ◆ Instant on/off |
| ◆ No warm-up time | ◆ Unlimited placement options |
| ◆ Cool to the touch | ◆ Won't warp delicate substrates |
| ◆ No performance degradation at end of lifecycle | ◆ Adjustable lens allows varying focal points |

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A device as advanced as the Cyberlite4 UV LED Lamp deserves to be paired with an equally powerful control center. In order to best harness the revolutionary capabilities of the Cyberlite4, Cyberbond introduces the next generation in UV cure controllers: the **Linop U 400**.

The Linop U 400 is a state-of-the-art, microprocessor-controlled UV curing device. Powerful, portable and ergonomic, it affords unheard-of flexibility and precision in UV curing. Whether it is controlled by your PLC, the unit's integrated button, or an attached foot switch, the **Linop U 400 is capable of controlling twelve Cyberlite4 UV LED lamps simultaneously**, making for extreme versatility.



For applications where adhesive drops of different sizes must be cured at the same time, or where the distance of each lamp varies from the curing point, **the intensity of all illumination is fully programmable and customizable**. The unit's LCD screen and 5 easy-to-use programmable memory buttons make operating the Linop U 400 an intuitive experience, whether you're changing the settings on the unit's built-in Cyberlite4 UV LED Lamp, or any additional Cyberlite lamps you've attached to the user-friendly back panel.



Linop U 400 Cure Controller Features

- ◆ Control up to 12 Cyberlite4 UV LED Lamps simultaneously
- ◆ Compatible with any PLC, or use as tabletop unit
- ◆ Capable of adjusting each lamp's intensity individually
- ◆ Manual control by push button or attached foot switch
- ◆ Built-in Cyberlite4 UV LED Lamp with adjustable arm
- ◆ User friendly
- ◆ Easily programmable
- ◆ Lightweight and portable
- ◆ Easy on/off
- ◆ LCD display for easy use

Distributed by



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Go to www.Cyberbond1.com