

UV LED Curing Solutions for Carton Windowing Adhesives

LED Light Sources Proven to Increase Production Speeds

Windowing is the process of applying a clear film or window to a carton for the purposes of viewing the contents inside the carton. This window is applied in a high speed process where the carton is passed through and a pattern adhesive is applied around the area where the window is to be fixed. Next the clear window film is set onto the adhesive and passed under a UV light source to cure the adhesive and permanently bond the window in place. This windowing process can be done with a Solvent, Water or UV adhesive. All of these processes can be converted to UV LED for significant production and application improvements.

Advantages over Mercury UV:

- ❖ Increased run speed
- ❖ Increased Bond Strength to Destruct (Fiber Tear)
- ❖ Low Heat - No Board Warping
- ❖ Improved Safety (No Carton Jam Fires)



UV LED Curing Applications:

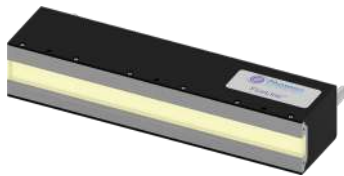
- Tissue boxes
- Pastry boxes
- Toy Boxes

UV LED Curing Solutions

Our UV LED curing solutions are the most reliable on the market. Starting from 2002 in Portland Oregon USA, Phoseon Technology foresaw the value of LEDs for Industrial Curing applications. With over 300 patents worldwide, Phoseon has earned the reputation for technological innovation, quality and reliability. As the market leader with the broadest portfolio of UV LED units offerings for our key markets, we welcome the opportunity to work jointly with you in developing further innovative solutions.

UV Adhesives respond very quickly to UV LED energy. The lack of oxygen in a buried construction & the ability of the high LED irradiance to penetrate many films allows for faster adhesive cure with increased bond strength compared to Mercury Arc UV.

FireLine™ FL400 Light Source



- Emitting window sizes: 125, 150, 225, 250, 300x20mm
- Cooling: Water cooled
- Power: 24W/cm²
- Scalable
- Digital/analog control
- Instant On/Off control/cure
- 20,000+ curing hours

FireLine™ FL440 Light Source



- Emitting window sizes: 125, 150, 225, 250, 300x40mm
- Cooling: Water cooled
- Power: 16W/cm²
- For higher dose applications
- Scalable
- Digital/analog control
- Instant On/Off control/cure
- 20,000+ curing hours



Made in the
U.S.A.

Contact Phoseon Today!

+1 503 439 6446

7425 NE Evergreen Parkway
Hillsboro, OR 97124 USA

info@phoseon.com
www.phoseon.com

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