

IST UV UNIT TO CROSS-LINK HOTMELT PSA



PROPERTIES OF ADHESIVES

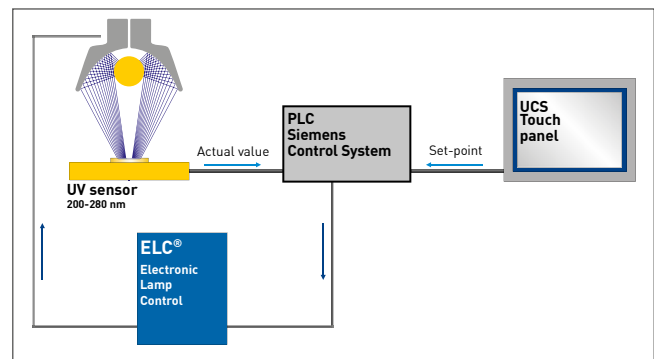
Special applications need adhesives with specifically defined properties. It is possible to adjust the adhesive properties of UV acrylates depending on the amount of UV exposure after application. With increased UV exposure the layer of glue becomes less adhesive. This results from the effect of UV exposure on acrylate adhesives. The amount of UV exposure is controlled by the specifications of the UV lamps used and the production speed of the machine. Therefore, a whole range of adhesives with different properties can be produced from one basic adhesive and varying UV exposure.

APPLICATION:

- Labels
- Adhesive tapes
- Suppliers of the motor industry
- Special applications

OPTIMUM EXPOSURE IS ALWAYS GUARANTEED

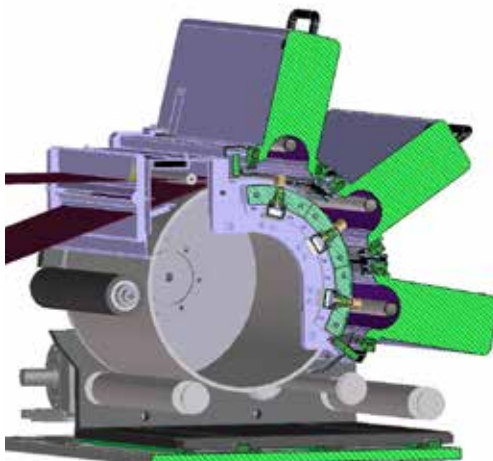
The web passes firstly through the unit where the adhesive is applied and then moves on to the UV lamps where the cross-linking process is initiated. UVC sensors constantly monitor and adjust the UV exposure in order to achieve the required adhesive properties. The stepless output control (ELC[®]) ensures that exactly the same UV exposure is applied to the adhesive layer.



Monitoring: required setpoint value and control

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- BLK[®] version
- Lamp output max. 200 W/cm
- Lamp length 2,300 mm
- Stepless lamp control (ELC[®]) relative to web speed
- Constant adjustment of the adhesive properties through continual UV output control via an integrated UV measuring and control unit
- Memory settings



STATIONARY UV MEASURING

The advanced IST UV Measuring equipment enables the UV output to be constantly monitored and regulated via one or more sensors. The production process is therefore controlled in a closed- cycle and runs under guaranteed conditions. The IST UV measuring system consist of a PLC and a separate S5 UV-C sensor. The data are shown on the UCS display.

SENSOR UV-S5

FUNCTION:

- The UV radiation intensity is measured up in mW/cm^2 .
- The sensor also measures oblique incident light according to the cosine of the angle of incidence and despite being subjected to intensive UV exposure the sensor is aging resistant.
- Electrical interference is prevented by screening the sensor and digital data transfer from the sensor to the processing unit.
- The spectral sensitivity of the sensor provides efficient measurement of UV in the UV-C range.
- Compressed air is used to cool the sensor which means that it is less likely to be damaged.

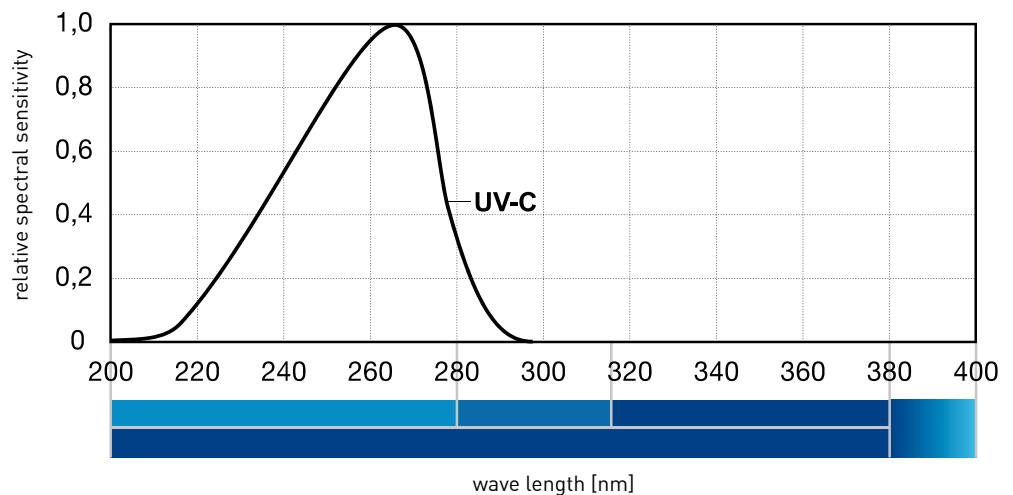


Properties:

Length x width x height: 98 x 34 x 22 mm

Compressed air rating: Minimum 2,5 m^3/h at 5 bar, Maximum depending on sensor temperature

Compressed air quality according to ISO 8573.1: parts 2, dew point 3, oil 3



WE HAVE THE CURE

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