

Petra Burger; Dr. Hönle AG; DE-Gilching



UVC-LED UPDATE AND INFLUENCES ON UV-CURING

During the last years some completely new branches of UV curing technology have found their way in the adhesive, printing and coating industry. As an alternative to conventional UV curing through medium pressure lamps, we can now make use of UV-LEDs.

Long wavelengths UVA-LEDs have already found their place in many curing applications. But long wavelengths also show disadvantages, like insufficient surface curing. UVC-LEDs may help to solve this issue, as short UV-irradiation is known as surface active and helps to improve crosslinking densities on the surface of the coating, ink or adhesive. Thanks to increasing power and efficiency, UVC-LEDs have now become more interesting for UV-curing applications.

This paper will give an overview of the State-of-the-art of UVC-LEDs and possible use for UV-curing applications.