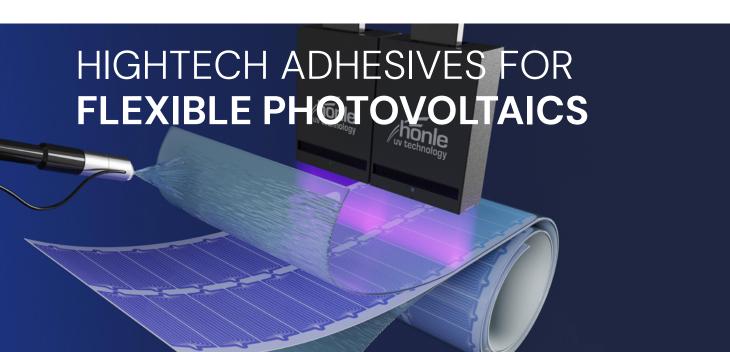
# hoenle eleco



Hoenle developed a range of multifunctional adhesives for applications in flexible photovoltaics and electronics. For OPV applications, these adhesives provide higher resistance to environmental stresses, an improved compatibility to the PV material and a high adhesion to the substrates.

New conductive adhesives efficiently adhere and protect electrical connections for SMD components in flexible assemblies. Significant benefits can be realized when an optimal pairing is achieved with the component design, assembly, (UV) adhesive properties, and the curing process. High-throughput processes, such as the roll-to-roll process, can be operated more efficiently which reduces total cost of ownership. The adhesives requirements such as flow properties can be modified to suit the application process perfectly.

#### **KEY ADVANTAGES**

- Environmental Resistance
   Protection against moisture,
   heat, and other stresses in OPV
   applications
- Material Compatibility
   Excellent adhesion to PV
   materials and flexible substrate
- Reliable Connections
   Conductive adhesives ensure stable bonding and protection of SMD components
- Customizable Properties
   Adhesive flow and curing behavior can be tailored to specific application needs



LED CURABLE FOR HIGHER PROCESS EFFICIENCY



FLEXIBLE AND COMPATIBLE TO PV MATERIALS



**ELECTRICALLY CONDUCTIVE** 



## FLEX OPV | SYSTEM SOLUTION

### **FLEX OPV | ADHESIVES**

	Viscosity [mPas] (Rheometer, 25°C, 10s <sup>-1</sup> )	Curing*	Description
Customized Vitralit®	Adaptable	UV/VIS (+Thermal)	Flexible adhesives with high adhesion to several substrates
Vitralit® UD 1410	1,500 - 2,000	UV/VIS/ Thermal	Flexible with approved compatibility to pv materials, low WVTR
Vitralit® UH 1411	6,000 - 7,000	UV/VIS	Flexible with approved compatibility to pv materials, excellent adhesion to barrier foil
Vitralit® E-VBB 1	1,300 - 1,600	UV/VIS	Elastic, high peel strength, LED-curable
Customized Elecolit®	Adaptable	Thermal	Flexible electrically conductive adhesive with high bond strength to several substrates
Elecolit® 3648	10,000 - 15,000	Thermal	Flexible, electrically conductive with high bond strength to several substrates, fast curing at 100 °C
Structalit® 3060-1	7,000 - 10,000	Thermal	Flexible, high bond strength to several substrates, fast curing

<sup>\*</sup>UV = 320 - 390 nm, VIS = 405 nm

### **UV CURING SYSTEMS**

	Dimension in mm	Available Wavelength in nm	Intensity in W/cm²	Cooling
LED Spotlights	Light emission up to Ø 20	365/385/405	up to 20.000	air-cooled
LED Line Emitters	Light emission width 10/20/40, length variable	365/385/395/405/460	up to 25.000	air and water-cooled
LED Floodlights	Light emission 20x20 / 40x40 / 100x100 / 200x50	365/385/395/405/460	up to 30.000	air and water-cooled
LED Curing Chambers	Inner dimension 180x180 / 350x350	365/385/395/405/460	up to 5.000	air-cooled
LED Conveyor Belts	Belt width 110 - 520	365/385/395/405/460	up to 25.000	air and water-cooled

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For regional sales and technical support, please refer to our global contact directory www.hoenle-eleco.com/fr/contact/

Operating parameters depend on production characteristics and may differ from the foregoing information. We reserve the right to modify technical data.

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