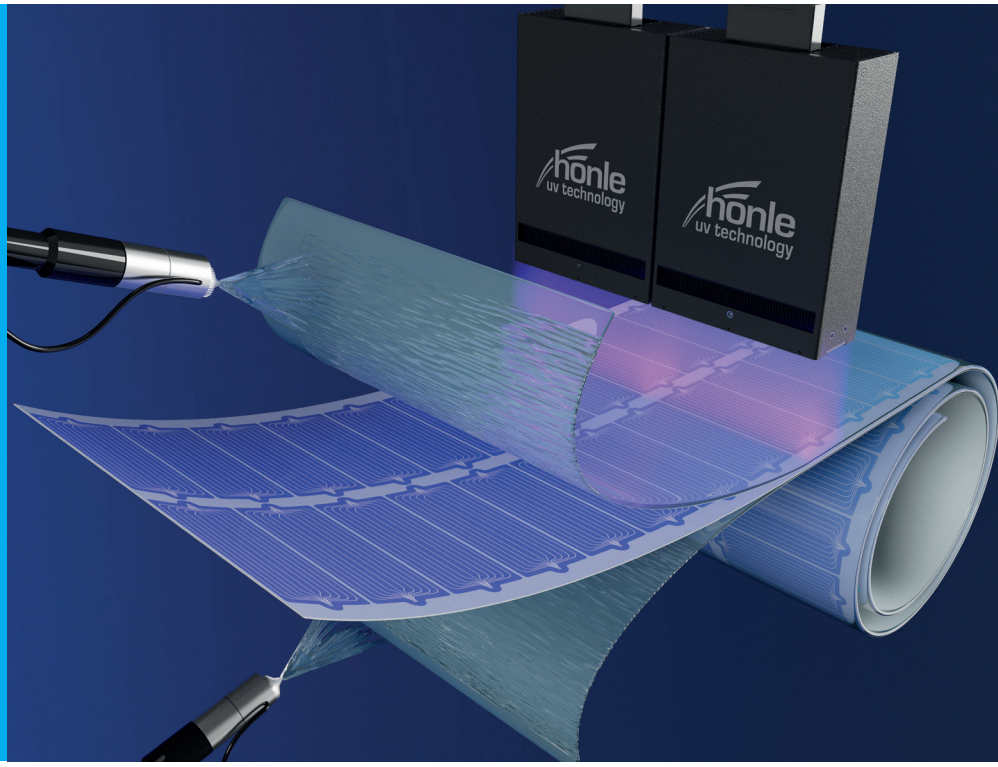
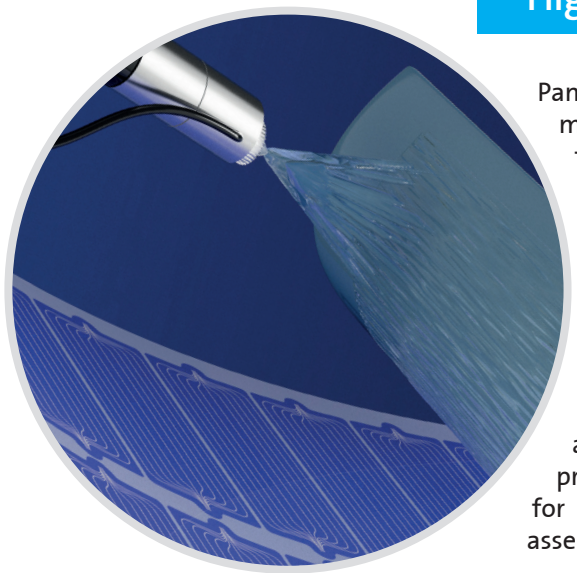
honle group

panacol adhesives & more

Adhesives for Flexible OPV





Hightech Adhesives for Flexible Photovoltaics

Panacol developed a range of multifunctional adhesive selections 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.

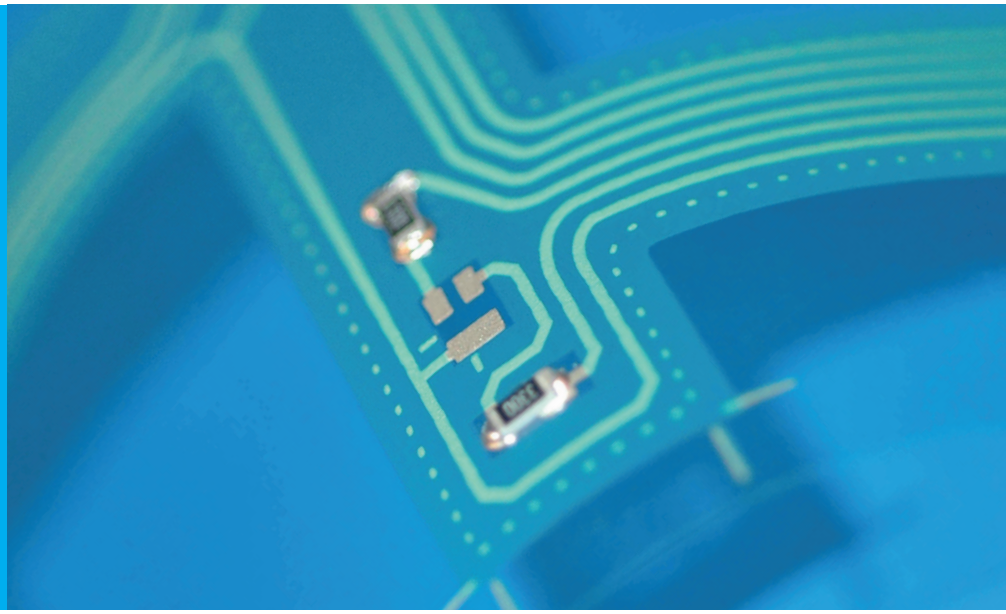
Significant benefits can be realized when an optimal pairing is achieved with the component design, assembly, (UV) adhesive properties, and the curing process. High-throughput processes, such as the roll-to-roll process, can be operated more efficiently which reduces total cost of ownership. The adhesives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

LED curable for higher process efficiency

Flexible and compatible to PV materials

Electrically conductive

OPV
Adhesives for Organic and Flexible Photovoltaics



Adhesive	Viscosity [mPas] (Rheometer, 25°C, $10s^{-1}$)	Curing*	Description
Customized Vitralit®	Adaptable	UV/VIS (+Thermal)	Flexible adhesives with high adhesion to several substrates, barrier foils, high compatibility to pv materials, low WVTR
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 adhesives 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

*UV = 320 - 390 nm; VIS = 405 nm

tewipack klebetechnik

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