



Smart Bonding Solutions for Photovoltaic Module Framing

Reliable Bonding Solutions for Efficient PV Production

As a strategic partner for the photovoltaic industry, Lohmann works side by side with module manufacturers to solve complex framing challenges and maximize production efficiency. Through the collaborative development of tailored bonding solutions for PV module framing, we help you achieve consistent quality, shorter cycle times, and a long service life for every module.

PV module framing with tape

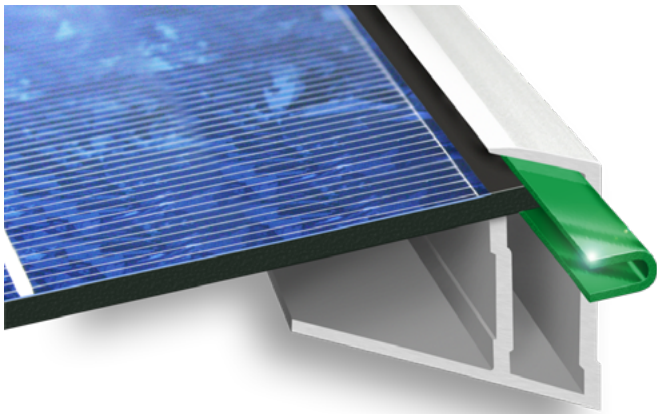
Customer application: the PV module is bonded into the aluminum frame using double-sided adhesive tape.

Your benefits:

- Defined, consistent quantity of adhesive between laminate and frame
- No pollution of the frame — eliminates additional cleaning steps
- Immediate bonding reduces cycle time; modules can be moved right after framing
- Outstanding aging, UV, and weathering stability
- Suitable for manual application or full automation

Applying the tape:

- Manual framing: tape supplied as spools and slit rolls, with helpful tools such as spool unwinders for workstation or tabletop use
- Automatic framing: tape supplied as spools with a PET film liner for secure, low-stretch processing



From high-performance bonding solutions to process integration

Lohmann is more than an adhesive tape supplier — we are your strategic partner in optimizing PV module framing. Taping offers significant potential for time and cost reduction compared to silicone sealing, without compromising on performance.

DuploCOLL® portfolio for PV module framing

	DuploCOLL 9182	DuploCOLL 57000	DuploCOLL 57005
Liner material	PE-film	PET-film	PET-film
Liner thickness	0,10 mm	0,05 mm	0,05 mm
Carrier	PE-foam, anthracite, 1,0mm	PE-foam, anthracite, 1,0mm	PE-foam, anthracite, 1,0mm
Construction	Symmetric	Symmetric	Asymmetric
Adhesive	Pure acrylic	Pure acrylic	Modified acrylic / Pure acrylic
Recommended application	Manual	Automatic	Automatic

Detailed technical data sheets are available on request — please reach out to your Lohmann contact.

DuploCOLL® solutions for further PV applications

Junction box bonding

- No curing time required
- Customized die-cuts and rolls for frame bonding — from a single supplier
- Outstanding aging, UV, and weathering stability

Insulation solutions — Kapton®

For applications that call for high-performance electrical insulation, Lohmann also offers Kapton®-based insulation tapes.

Find out more:
lohmann-tapes.com/Kapton



Tape vs. silicone — the difference in practice

Our PV framing tapes are qualified in accordance with IEC 61215 and UL 746C, giving you confidence in long-term module performance.

	DuploCOLL Tape	Silicone
Positioning	Defined, homogeneous protection between profile and laminate	Risk of undefined positioning and direct contact
Cycle time	Immediate bonding — module can be moved right after framing	Longer cycle times due to curing
Cleaning	No cleaning required	Intensive cleaning required
Storage	Can be stored after opening	Must be used immediately once opened



The perfect bonding solution?
The one tailored to your application.
We support you **from the idea** to its
integration **into your process**.



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