



Press Release

June 08, 2026

Strategic collaboration addresses a key bottleneck in scaling organic photovoltaic (OPV) technologies for roll-to-roll production

Henkel and Brilliant Matters partner to advance screen-printable silver inks for efficient, high-throughput organic photovoltaic panel manufacturing

Düsseldorf – Henkel announces a strategic partnership with Brilliant Matters, a leader in organic semiconductor materials for printed electronics, to co-develop screen-printable silver inks compatible with next-generation efficient and durable OPV panel manufacturing using high-throughput roll-to-roll processes.

The collaboration aims to address one of the most persistent challenges in scaling OPV from laboratory innovation to industrial production: screen printing high-resolution conductive silver lines on the OPV sub-stack without generating defects that can be detrimental to panel efficiency or durability. Achieving robust, high-throughput metallization without compromising device performance has remained a critical hurdle for the industry.

This partnership builds on Brilliant Matters' recent introduction of BM10, a breakthrough OPV solution designed to transform the market. BM10 enables the manufacturing of flexible semitransparent OPV panels with power outputs over 100 W/m² under standard test conditions while delivering operational lifetimes exceeding 25 years. Realizing this level of performance in industrial settings requires not only advanced active materials, but also seamless integration of every layer and process step in the device stack.

"Delivering high-performance OPV at scale requires more than material innovation – it demands a fully optimized ecosystem," said Philippe Berrouard, Chief Technology Officer at Brilliant Matters. "Our collaboration with Henkel reflects our commitment to assembling all the critical pieces needed to enable reliable, high-throughput OPV manufacturing." Varun Vohra, Engineering Department Manager at Brilliant Matters, added: "Achieving fine-line conductive

patterning on sensitive OPV device stacks requires precise control over material formulation, print rheology, and process integration. By combining Henkel's expertise in advanced conductive inks with Brilliant Matters' OPV platform and roll-to-roll manufacturing know-how, we are developing metallization solutions specifically engineered to enable scalable, defect-minimized OPV production."

Henkel brings extensive expertise in advanced materials, including conductive inks and adhesives for printed electronics. With a strong global presence and a proven track record in enabling scalable manufacturing solutions, Henkel is uniquely positioned to co-develop inks that meet the demanding requirements of high-throughput OPV production.

"By combining Henkel's in-depth know-how in silver ink formulation and chemistries, with Brilliant Matters' deep understanding of OPV device architecture, we are accelerating the path toward industrial adoption," said Thibaut Soulestin, Technology Manager for Printed Electronics at Henkel. "This partnership highlights the importance of cross-industry collaboration in bringing next-generation energy technologies to market."

Henkel and Brilliant Matters have been working closely over the past year to develop screen-printable silver inks that deliver the precision, conductivity and process compatibility required for high-performance OPV panel manufacturing. Early results demonstrate strong potential for scalable integration into roll-to-roll manufacturing lines.

The two companies will be present at the upcoming TechBlick Conference in Mountain View held on June 10-11, 2026. Industry stakeholders in OPV and printed organic electronics are invited to attend and engage with both teams.

Henkel welcomes inquiries from industrial partners interested in learning more about this collaboration and exploring opportunities for further cooperation.

About Henkel

With its brands, innovations and technologies, Henkel holds leading market positions worldwide in the industrial and consumer businesses. The business unit Adhesive Technologies is the global leader in the market for adhesives, sealants and coatings. With Consumer Brands, the company holds leading positions especially in laundry & home care and hair in many markets and categories around the world. The company's three strongest brands are Loctite, Persil and Schwarzkopf. In fiscal 2025, Henkel reported sales of about 20.5 billion euros and adjusted operating profit of around 3.0 billion euros. Henkel's preferred shares are listed in the German stock index DAX. Sustainability has a long tradition at Henkel, and the company has a clear sustainability strategy with specific targets. Henkel was founded in 1876 and today employs a diverse team of about 47,000 people worldwide – united by a strong corporate culture, shared values and a common purpose: "Pioneers at heart for the good of generations." More information at www.henkel.com

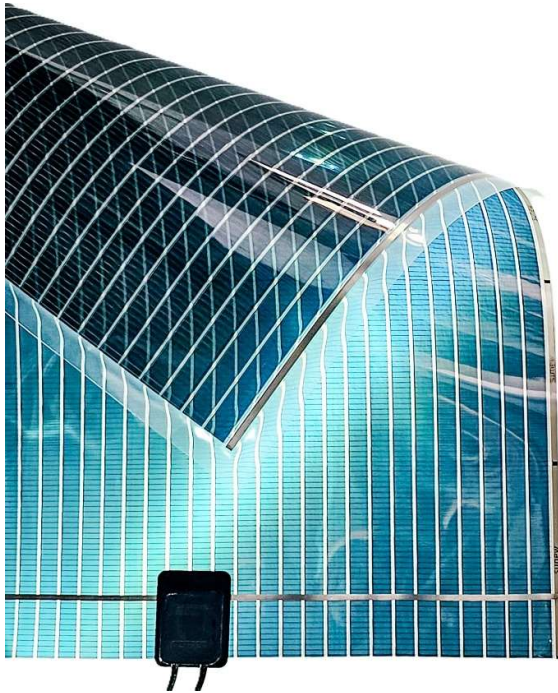
About Brilliant Matters

Brilliant Matters is a Canadian deep technology company founded in 2016 and a market leader in thin-film, flexible, semitransparent solar technology. Through its proprietary innovations, the company is advancing next-generation solar solutions that combine performance, durability, and design flexibility. Its technologies enable seamless integration into buildings, infrastructure, and emerging applications where conventional solar is impractical. Visit <https://brilliantmatters.com/> for more info.

Photo material is available at www.henkel.com/press

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Brilliant Matters produces advanced, eco-friendly organic semiconductor materials used to manufacture lightweight, flexible, and semi-transparent Organic Photovoltaic (OPV) panels. Unlike conventional silicon-based photovoltaic technology, OPV panels are produced using advanced material inks that can be printed through roll-to-roll manufacturing processes, similar to newspaper printing. (Image: Brilliant Matters)



Henkel's Loctite silver conductive inks are high-performance formulations designed to print electrical circuitry on flexible and rigid substrates. They deliver exceptional electrical and thermal conductivity, combined with mechanical flexibility, stretchability, and chemical resistance.