



Press Release

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Collaboration to boost adoption of additive manufacturing in prosumer market and announcement of jointly launched photopolymers

Phrozen joins Henkel's Open Materials Platform to drive LCD 3D printing market

Düsseldorf, Germany – [Phrozen 3D printers](#) (Phrozen), a Taiwan-based LCD 3D Printing company, has joined Henkel's Open Materials Platform. The companies aim to combine Phrozen's mono-LCD technology, offering high speed and precision, with Henkel's high resolution photopolymers to empower professionals, hobbyists, and 3D Printing enthusiasts across markets. The Loctite 3D Printing portfolio from Henkel offers a vetted ecosystem of partners and revolutionary performing materials that enable the use of additive manufacturing for a wide range of applications with validated workflows.

With this joint alliance, the companies bring together the combined expertise of fast printing using high resolution LCD technology and high-quality material producing precise prints with excellent surface finish ideal for rapid prototyping and design iterations. Phrozen printers offer budget-friendly pricing with High Precision Printing, Sonic Mini 4K and Sonic Mighty 4K both got 4K printing capabilities; Sonic Mini 4K even got 35 µm and 722PPI, the highest PPI on the market with Monochrome LCD screen, long working hours (>2000 hours) and extremely fast printing speed, 400% faster than traditional printing.

Loctite 3D Printing recently stepped into the arena of professional grade resins for prosumers and 3D printing enthusiasts to explore the capabilities of additive manufacturing. Introducing the PRO range resins together with partners, Henkel aims to enhance the accessibility of its solutions around the world. In collaboration with OEM printer partners the materials provide consistent and reproduceable results based on a workflow validation.

Phrozen and Henkel partner to explore and expand use cases of commercial resin 3D printing. Consumer 3D printing is popular but currently has not been widely adopted outside

miniature, jewelry making or dental uses due to a lack of suitable materials with both precision and superior engineering capabilities. Thus, the partnership aims to drive the additive manufacturing transformation for the prosumer market. Consumers will now have access to precision printing so that they can create reliable and high-quality models for small prototyping, DIY projects, and more with the Phrozen Onyx Rigid Pro410.

Phrozen Onyx Rigid [PRO410](#) is a fast printing, rigid photopolymer that can be printed with very high-resolution features. The material is formulated to provide exceptional surface finish with an extremely high print accuracy. Post curing, the printed part showcases a dimensional accuracy of within 0.2%. This product is perfect for printing accurate prototypes, that will be exposed to temperatures up to 70°C. This material enables 3 times faster printing than traditional prototyping resins. This product is now validated for [Phrozen Sonic Mighty 4K](#) and [Phrozen Sonic Mini 4K](#) printers.

"We're glad to work with Henkel to tap into the prosumer market," says Ray Wu, Phrozen CEO. "With Onyx Rigid Pro410 resin, we can meet consumers' engineering needs while offering them the precision details they need. We are looking forward to continued collaboration with Henkel in the coming future."

"We are thrilled to have Phrozen join Henkel's Open Materials Platform," adds Simon Mawson, Senior Vice President and Global Head of 3D Printing at Henkel. "By combining our new range of Loctite PROfessional resins with Phrozen's consumer friendly LCD, we can now deliver higher productivity, performance and cost-effective solutions for the prosumer market."

Phrozen and Henkel will continue to introduce similar resins with stronger capabilities and functional characteristics in the coming future. More on Phrozen Henkel collaborations are to follow, stay tuned.

Interested to try out this product, [checkout at Amazon](#). To learn more about Henkel's innovation in 3D printing visit [LoctiteAM.com](#). To see how your organization can collaborate with Henkel, please email Loctite3DP@henkel.com.

About Henkel

Henkel operates globally with a well-balanced and diversified portfolio. The company holds leading positions with its three business units in both industrial and consumer businesses thanks to strong brands, innovations and technologies. Henkel Adhesive Technologies is the global leader in the adhesives market – across all industry segments worldwide. In its Laundry & Home Care and Beauty Care businesses, Henkel holds leading positions in many markets and categories around the world. Founded in 1876, Henkel looks back on more than 140 years of success. In 2020, Henkel reported sales of more than 19 billion euros and adjusted operating profit of about 2.6 billion euros. Henkel employs about 53,000 people globally – a passionate and highly diverse team, united by a strong company culture, a common purpose to create sustainable value, and shared values. As a recognized leader in sustainability, Henkel holds top positions in many international indices and rankings. Henkel's preferred shares are listed in the German stock index DAX. For more information, please visit www.henkel.com.

About Phrozen

[Phrozen](https://phrozen3d.com/) is a Taiwan-based startup that develops professional and consumer-friendly LCD 3D printers. Our mission is to strive towards enhancing human creativity and productivity by creating groundbreaking, innovative 3D printing solutions. Since its launch in 2016, Phrozen has released a variety of 3D printers, successfully bringing once-inaccessible 3D printing to consumers while maintaining industrial-grade precision and printing capabilities. The company is rapidly expanding to markets in the U.S., Europe, Japan, South Korea, Australia, and more. <https://phrozen3d.com/>

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

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Phrozen and Henkel collaborate to drive the LCD 3D printing for professionals, hobbyists and enthusiasts across markets.