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For Immediate Release

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Toyo Gosei to Exhibit UV Nanoimprint Resins at “Neo Functional Materials Exhibition 2026”

Toyo Gosei Co., Ltd. (President & Representative Director: Yujin Kimura) will exhibit at “Neo Functional Materials Exhibition 2026,” to be held at Tokyo Big Sight from Wednesday, January 28 to Friday, January 30, 2026.

At the exhibition, the Company will showcase its proprietary UV nanoimprint resins and introduce potential applications of nanoimprint technology, primarily for optical uses such as information and communications, remote sensing, AR as well as display technologies, and image sensing.

[Neo Functional Materials Exhibition 2026]

Name: Neo Functional Materials Exhibition 2026

Dates: January 28 (Wed) - January 30 (Fri), 2026

Venue: Tokyo Big Sight, West Hall

Booth No.: 4W-M15

Exhibitor Introduction Page:

https://unifiedsearch.jcdbizmatch.jp/nanotech2026/jp/converttech/details/xarmWF_5maU

[What Is Nanoimprint Technology?]

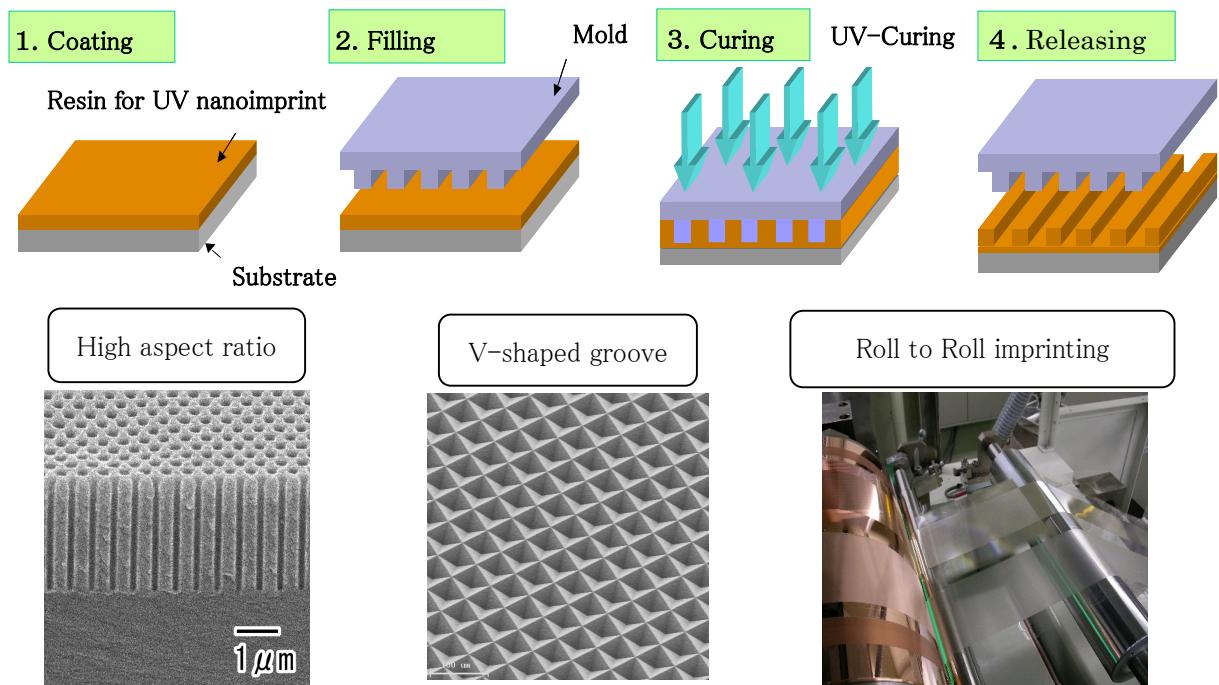
Nanoimprint technology is a microfabrication method in which resin is placed between a mold and a substrate to transfer nanometer scale patterns.

The nanoimprint process consists of four simple steps:

1. Coating
2. Filling
3. Curing
4. Releasing

This straightforward process enables high-precision nanoscale patterning and is expected to become a cost-effective, mass-producible microfabrication technology.

The technology is advancing toward practical application in a wide range of fields, including semiconductor devices, XR/AR/MR devices, biotechnology, and optical components.



[Exhibits at This Exhibition]

○Working Stamp Resin

Working stamp resins are used to faithfully replicate high-cost master molds and transfer patterns to final products. These materials have already been adopted in the manufacturing processes of commercial products such as AR glasses.

Their excellent repetitive transfer durability and high releasability without the need for release agents make them particularly suitable for optical applications requiring high molding precision.

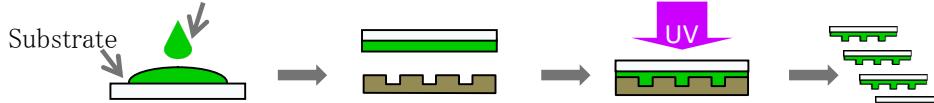
Compatibility with a wide range of optical resins has also been confirmed. These materials are available as the PAK-TRAD Series*¹.

*¹ currently under development.

WS fabrication process :

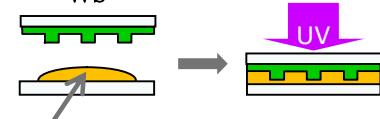
UV-curable WS resin

(Liquid, Solvent-free)



Product fabrication process :

WS



UV resin for product fabrication

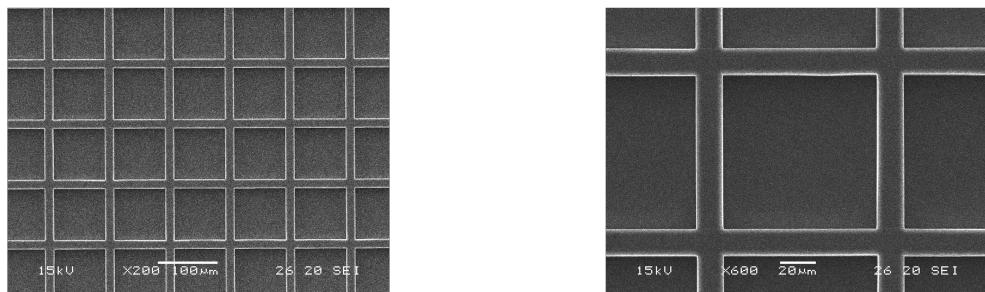
○Imprint Resins (Optical Permanent Film / Substrate Processing Applications)

Toyo Gosei is also actively developing nanoimprint resins that remain on the final product and exhibit optical properties derived from the patterned structure (optical permanent film applications), as well as sacrificial layer resins used in substrate etching processes.

At our booth, the Company will introduce development examples of these materials as well.

Example of Patterning Using an Optical Permanent Film Resin

Lattice Pattern (15 μ m in height and width)



[About Toyo Gosei Co., Ltd.]

Founded in 1954, Toyo Gosei Co., Ltd. is an independent chemical materials manufacturer that celebrated its 70th anniversary in 2024. The Company's core businesses include:

- Photosensitive Materials Business, supplying materials used in semiconductor and flat panel display manufacturing.
- Chemical Products Business, supplying high-purity solvents for electronic device manufacturing.

In addition, the Company operates a Logistics Business focused on the storage and management of liquid chemicals.

In recognition of its originality, manufacturing technology, and stable supply capabilities, the Company was selected by Japan's Ministry of Economy, Trade and Industry as one of the "2020 Global Niche Top Companies 100."

In November 2024, capacity expansion plans at the Chiba Plant (Tohnoshō, Chiba Prefecture), Ichikawa Plant (Ichikawa City), and Awaji Plant (Awaji City, Hyogo Prefecture) were certified by the Minister of Economy, Trade and Industry as eligible for subsidies under the Act on Strengthening Supply Chains for Economic Security.

Through these initiatives, Toyo Gosei aims to contribute to Japan's semiconductor strategy and achieve sustainable growth. Official Website: <https://www.toyogosei.co.jp/>

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