# Uv Curable Resin For Nanoimprint

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**Uv Curable Resin For Nanoimprint**
High RI, UV curable nanoimprint resins provide highly functional fine patterns with high accuracy. The development and the sales launch of Solvent-free High Refractive Index Resin for Nanoimprint.

**High Refractive Index Resins for Nanoimprint | NTT-AT**
A UV-curable nanoimprint resist commonly consists of three basic constituents: resin monomer, photoinitiator, and additive. Commonly used monomers have unsaturated double bonds [, , , , ], epoxy groups [, , , , , ] or other cross-linkable groups. Volume shrinkage is common in cured resists due to a change in molecular interactions.

**UV-curable nanoimprint resist with liquid volume-expanding ...**
We developed a UV-curable resin (NL-SU1) suitable for screen printing with laser-drilled polyimide masks and reverse-tone nanoimprint lithography. The viscosity of the UV-curable resin composed of two bisphenol A-based monomers was adjusted to 11.0 Pa·s for the screen printing process.

**Development of UV-Curable Resins Suitable for Reverse-Tone ...**
We developed fluorescent UV-curable resists for UV nanoimprint lithography to readily detect residual layer thickness and analyze its profile in. addition to pattern defects by fluorescence microscopy. A fluorescent dye of rhodamine 6G, 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-.

**Fluorescent UV-Curable Resists for UV Nanoimprint Lithography**
US20090256287A1 - UV Curable Silsesquioxane Resins For Nanoprint Lithography - Google Patents Radiation-curable silsesquioxane resin materials are employed for micro- and nanolithography. The resin...

**US20090256287A1 - UV Curable Silsesquioxane Resins For ...**
Various pattern sizes, for example, ranging from tens of microns to as small as a few nanometers, may be achieved with the UV-curable material system. US8293354B2 - UV curable silsesquioxane resins...

**US8293354B2 - UV curable silsesquioxane resins for ...**
This paper reports on a newly developed anti-sticking resin obtained by mixing a fluorine-containing monomer (F-monomer) for UV nanoimprinting lithography (UV-NIL) to reduce the contact adhesion force during the demolding process.

**UV-curable nanoimprint resin with enhanced anti-sticking ...**
All of the materials we offer are compatible with our Roll-to-Plate nanoimprint process: they are curable by UV light and free of solvents. Generally, our resins are optically clear with tunable refractive index. Various materials can be used as substrate, where some of the material combinations will require an adhesion promoter or primer.

**Nanoimprint materials | Morphotonics**
Acrylated Epoxies. Epoxy acrylates are very popular UV curing systems. They undergo fast radical induced crosslinking when exposed to UV radiation. They are extensively used in lithographic inks and varnishes, as well as in printed circuit board, wood, concrete and plastic coatings.

**UV-Curable Resins - polymerdatabase.com**
UV cure resin is related to the normal epoxy resin, but it differs significantly in its processing: UV resin is already mixed ready for use and can be processed immediately UV resin can be cured within minutes with a UV lamp Only thin layers can be applied or poured

**UV Resin - The fast curing resin for immediate results**
The cured resin was degraded by irradiation at 254nm. The UV curing and degradation properties were dependent on the core structure of the monomers. The monomers were applied to the UV nanoimprint lithography. Dimethacrylate that has adamantyl unit showed a low-shrinkage property.

**UV Curable Monomers for Imprint Lithography**
PUA and MD 700, both of which have been used as nanoimprint molds [19–22], are representing low surface energy UV resins. Low surface energy may be problematic in filling the resin into nanostructures but is beneficial as a mold material to improve demolding without surface treatment to Si master mold [5, 20].

**Selection of UV Resins for Nanostructured Molds for ...**
Conventionally, UV cured resin is removed by treating with sulfuric acid-hydrogen peroxide mixture (SPM) followed by ammonium hydroxide-hydrogen peroxide mixture (APM). One of the major drawbacks in using SPM-based treatment is the chemical haze formation and particle contamination on the quartz substrate [.

**Removal of UV Cured Resin Using Hybrid Cleaning Method ...**
Abstract This paper reviews and discusses photo-curable resin for UV nanoimprint. The resins had been offered a variety of curing systems and evaluated their characteristics for each application....

**Photo-curable Resin for UV-Nanoimprint Technology ...**
Also, new UV-curable resins that had low viscosity values were developed for the UV nanoimprint process, and imprint tests using these resins were performed successfully. The curing model considered the UV irradiation time, power, and curing temperature, which are important parameters in the UV nanoimprint process.

**Development of a resin curing model for UV nanoimprint.**
Ultraviolet curable resins for nanoimprint are used which have different amount of functional group; PAK-01(TOYO GOSEI CO., LTD.), C-TGC-02, C-TGC-03. These samples are epoxide ester which has vinyl group at the terminal of the molecule.

**Real Time Photo-Curing Reaction Measurement and Thermal ...**
We studied a fluorescent UV-curable resin suitable for fluorescence alignment in UV nanoimprinting. The addition of a cationic fluorescent dye caused radical photopolymerization of a UV-curable resin by exposure to visible excitation light for fluorescence microscope observation.

**Development of UV-curable liquid for in-liquid ...**
UV replication is part of the nanoimprint family of replication methods. It requires a master mold, a transparent substrate, and a UV curable resin. The UV curable resin is dispensed on either the master or the substrate Master and substrate are put in contact

**UV Replication | Replication | Optical Components | NIL ...**
A novel resin mold for the UV imprint lithography was devised. The resin mold was prepared by the method of duplication of the original quartz mold. The surface of the UV cured resin mold was modified by photoreaction to form hydrophilic groups.