

Global Nanoimprint Lithography (NIL) Optical Resin Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GE9523F44443EN.html>

Date: July 2026

Pages: 116

Price: US\$ 3,480.00 (Single User License)

ID: GE9523F44443EN

Abstracts

According to our (Global Info Research) latest study, the global Nanoimprint Lithography (NIL) Optical Resin market size was valued at US\$ 61.74 million in 2025 and is forecast to a readjusted size of US\$ 166 million by 2032 with a CAGR of 14.2% during review period.

Nanoimprint optical resin, also known as NIL resin or NIL resist, is a functional polymer material used for nanoimprint lithography and micro/nanostructure replication. The mainstream route is UV-curable nanoimprint resin, followed by thermal nanoimprint resin and photo-thermal compatible resin. Product forms include liquid photoresist, spin-coating solution and mold resin. Its manufacturing involves high-purity monomer synthesis, photosensitive system design, low-shrinkage and high-refractive-index formulation optimization, and nanoscale pattern fidelity control. Key specifications usually include a refractive index of 1.5?2.0, with high-RI products generally above 1.7 and high-end products reaching 1.85?1.9. Curing shrinkage is generally required to be below 3%, while high-end optical-grade products can be below 0.8%. High-end products can achieve haze of ?0.1%, transmittance of ?90%, and resolution from sub-10 nm to 100 nm level. Typical applications include semiconductor patterning and advanced packaging, AR/VR optical waveguides, DOE, microlens arrays, 3D sensing and Micro-LED displays. In 2025, the global nanoimprint optical resin industry average gross margin is estimated at around 38%?52%, while high-end customized products can reach 55%?68%. Industrial-grade products are priced at approximately USD 150?1,200/kg, and some high-end customized high-RI resins can reach USD 2,000?4,000/kg.

The nanoimprint lithography optical resin industry is a critical segment within the micro-

and nanoscale manufacturing and high-precision optical components ecosystem, providing precise nanoscale pattern replication and high refractive index optical functionality. Upstream supply relies on high-purity polymers, photosensitive monomers, and low-shrinkage formulations, while midstream focuses on the preparation and optimization of UV-curable resins, high RI materials, and thermal or photo-curable compatible resins. Downstream applications encompass semiconductor fabrication, AR/VR waveguides, microlens arrays, diffractive optical elements, and 3D sensing, creating a technology-intensive closed-loop industrial chain. Competition is regionally concentrated, with Japan, Germany, the United States, and China leading in R&D capability, product consistency, and high-value custom solutions.

Growth is driven by the ongoing adoption of semiconductor nanoimprint processes, scaling validation of AR/VR waveguide devices, and expansion in micro-optical applications. New product releases, capacity expansion, and regional supply chain optimization continually accelerate industry iteration, while long customer qualification cycles and high product prices contribute to market stickiness and entry barriers. The global supply structure exhibits a 'few core manufacturers plus long-tail small suppliers' pattern, with the latter primarily supplying research-grade or custom materials to complement core capacities.

Technological trends point toward higher refractive indices, reduced shrinkage, low haze, and enhanced photostability, with UV-curable resins, thermal-compatible materials, and degradable polymers as the main focus areas. Policy support, R&D investment, and capital expenditures strengthen the industrial chain, while commercialization of high-end AR/VR and semiconductor applications will further expand market demand. The industry is expected to evolve toward customization, high value-added solutions, and improved reliability, leveraging advanced optical design and micro- and nanoscale manufacturing technologies to sustain stable growth.

This report is a detailed and comprehensive analysis for global Nanoimprint Lithography (NIL) Optical Resin market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nanoimprint Lithography (NIL) Optical Resin market size and forecasts, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Nanoimprint Lithography (NIL) Optical Resin market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Nanoimprint Lithography (NIL) Optical Resin market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Nanoimprint Lithography (NIL) Optical Resin market shares of main players, shipments in revenue (\$ Million), sales quantity (Kg), and ASP (US\$/Kg), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Nanoimprint Lithography (NIL) Optical Resin

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Nanoimprint Lithography (NIL) Optical Resin market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FUJIFILM Corporation, micro resist technology GmbH, Toyo Gosei Co., Ltd., Inkron Oy, NTT Advanced Technology Corporation, Sanyo Chemical Industries, Ltd., Nanonex Corporation, DELO Industrial Adhesives, Addison Clear Wave Coatings, Inc., HighRI Optics, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Nanoimprint Lithography (NIL) Optical Resin market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

UV-Curable Resin

Thermal-Curable Resin

Photo-Thermal Compatible Resin

Others

Market segment by Coating Method

Spin Coating

Drop Casting

Blade Coating

Others

Market segment by Refractive

Standard RI ($n=1.50\text{--}1.65$)

High RI ($n=1.65\text{--}1.85$)

Ultra-High RI ($n=1.85\text{--}2.00$)

Others

Market segment by Application

Semiconductor Fabrication

AR/VR Waveguides

Diffractive Optical Elements

MicroLens Arrays

3D Sensing & Micro-LED

Others

Major players covered

FUJIFILM Corporation

micro resist technology GmbH

Toyo Gosei Co., Ltd.

Inkron Oy

NTT Advanced Technology Corporation

Sanyo Chemical Industries, Ltd.

Nanonex Corporation

DELO Industrial Adhesives

Addison Clear Wave Coatings, Inc.

HighRI Optics, Inc.

Prinano Technology (Hangzhou) Co., Ltd.

Shenzhen Soltrium New Material Technology Co., Ltd.

Tianren Micronano

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nanoimprint Lithography (NIL) Optical Resin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nanoimprint Lithography (NIL) Optical Resin, with price, sales quantity, revenue, and global market share of Nanoimprint Lithography (NIL) Optical Resin from 2021 to 2026.

Chapter 3, the Nanoimprint Lithography (NIL) Optical Resin competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nanoimprint Lithography (NIL) Optical Resin breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Nanoimprint Lithography (NIL) Optical Resin market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nanoimprint Lithography (NIL) Optical Resin.

Chapter 14 and 15, to describe Nanoimprint Lithography (NIL) Optical Resin sales channel, distributors, customers, research findings and conclusion.

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