

# **Photopolymers Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Performance (Low, Mid, High), By Technology (SLA, DLP, cDLP), By Application (Dental, Medical, Audiology, Jewellery, Automotive, Others), By Region and Competition**

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## **Abstracts**

Global Photopolymers Market has valued at USD 2.12 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 9.67% through 2028. The market's expansion can be credited to several key factors driving its growth. Firstly, the heightened adoption of high-speed printing techniques, the production of robust and intricate 3D printed items, and a focus on design precision are expected to stimulate market demand significantly. Secondly, the increasing need for prototyping within the automotive sector and the creation of intricate models to aid in understanding complex surgical procedures have contributed to a surge in demand for photopolymers in 3D printing. Moreover, the global population's growing desire for artificial jewelry and prosthetic items has further accelerated market growth.

### **Key Market Drivers**

#### **Surging Demand for Photopolymers in the Dental Sector**

In recent years, photopolymers have emerged as indispensable materials in the dental sector, revolutionizing the way dental professionals approach procedures ranging from tooth restoration to orthodontics. These light-cured resins offer a remarkable combination of precision, versatility, and aesthetics, propelling their demand in both clinical and laboratory settings. One of the primary applications driving the demand for

photopolymers in the dental sector is restorative dentistry. Photopolymer-based composites have become the material of choice for filling cavities, repairing chipped or broken teeth, and even reshaping misaligned teeth. These dental composites can be precisely color-matched to the patient's natural teeth, ensuring a seamless and aesthetically pleasing result. Furthermore, photopolymer composites exhibit impressive durability, with resistance to wear and fracture, making them ideal for long-lasting dental restorations. The field of orthodontics has witnessed a remarkable transformation with the advent of photopolymers. Clear aligners, a popular alternative to traditional braces, are typically made from biocompatible photopolymer materials. These aligners offer numerous advantages, including improved patient comfort, reduced treatment visibility, and ease of maintenance. The demand for clear aligners is on the rise, as patients increasingly prefer these aesthetically pleasing and convenient orthodontic solutions. This trend is driving the need for high-quality photopolymers with precise curing properties to produce accurate and comfortable clear aligners.

Moreover, photopolymers are also playing a pivotal role in the fabrication of dental prosthetics and appliances. Whether it's the creation of crowns, bridges, or dentures, photopolymers offer dental technicians the ability to craft highly customized, patient-specific solutions. Digital workflows, including computer-aided design (CAD) and computer-aided manufacturing (CAM), enable precise and efficient production of these dental devices using photopolymer-based materials. Patients benefit from prosthetics that not only fit comfortably but also mimic the appearance and function of natural teeth, contributing to the growing demand for such restorative and cosmetic treatments. The advent of 3D printing technology has further fueled the demand for photopolymers in the dental sector. Dental laboratories and clinics are increasingly adopting 3D printers equipped with UV or visible light curing capabilities to produce a wide range of dental devices, from surgical guides and temporary crowns to implant models and orthodontic appliances. The ability to rapidly prototype and manufacture these items with high precision has significantly improved workflow efficiency in dental practices. Photopolymer-based resins are at the forefront of this 3D printing revolution, enabling dental professionals to offer customized treatment plans with unprecedented accuracy.

Furthermore, the demand for photopolymers in the dental sector is closely tied to their biocompatibility and the emphasis on patient safety. Photopolymer-based materials used in dental applications are rigorously tested to ensure they meet strict biocompatibility standards. This assures both dental practitioners and patients that these materials are safe for intraoral use. The absence of harmful chemicals and allergenic components in photopolymers further reinforces their role as a preferred choice in dental procedures, fostering trust in their usage. Minimally invasive dentistry,

which aims to preserve as much healthy tooth structure as possible during dental procedures, has gained prominence. Photopolymers contribute significantly to this approach by enabling the use of conservative techniques, such as tooth-colored fillings and inlays/onlays, which require minimal removal of tooth material. Patients increasingly value the preservation of their natural teeth, and this preference has led to a surge in demand for photopolymer-based restorations and treatments that align with minimally invasive principles.

Additionally, aesthetic considerations have become paramount in modern dentistry, with patients increasingly seeking treatments that not only restore dental function but also enhance their smile's appearance. Photopolymer composites excel in this regard, offering natural-looking results that seamlessly blend with existing dentition. The demand for cosmetic dental procedures, including veneers, tooth-colored fillings, and teeth whitening treatments, is on the rise, driving the utilization of photopolymers to fulfill patients' desires for enhanced aesthetics and overall satisfaction with their dental outcomes, leading to the demand of market in the forecast period.

### Increasing Demand of Photopolymers in Medical Sector

Photopolymers, a class of light-sensitive materials that undergo a transformation when exposed to ultraviolet (UV) or visible light, have been quietly but significantly transforming the medical sector. These versatile materials, initially employed in various industrial applications, are now making remarkable inroads into medical devices, diagnostics, and pharmaceuticals. One of the primary drivers of the demand for photopolymers in the medical sector is their role in the manufacturing of medical devices. These devices encompass a wide range of products, from surgical instruments and implants to prosthetics and orthopedic devices. Photopolymers offer a unique combination of precision and customization, making them invaluable in producing patient-specific medical solutions. Additive manufacturing technologies, including 3D printing, are increasingly utilizing photopolymer resins to create intricate and tailored medical devices that optimize patient outcomes.

Moreover, in the field of diagnostics, photopolymers have enabled the development of advanced lab-on-a-chip and microfluidic devices. These miniaturized diagnostic platforms, made possible by photopolymer materials, allow for rapid and highly sensitive testing, delivering faster and more accurate results. From detecting infectious diseases to monitoring biomarkers, photopolymer-based diagnostics are revolutionizing point-of-care testing and enabling early disease detection, improving patient care and management.

Furthermore, photopolymers are also playing a vital role in drug delivery systems. The controlled release of pharmaceuticals is essential for ensuring the efficacy and safety of medications. Photopolymer-based drug delivery devices, such as microneedle arrays and implantable drug reservoirs, offer precise control over drug release kinetics. This allows for personalized treatments tailored to individual patient needs, reducing side effects and enhancing therapeutic outcomes. The demand for these advanced drug delivery systems is growing as healthcare providers and pharmaceutical companies recognize their potential to revolutionize drug administration. The field of tissue engineering and regenerative medicine has been greatly enriched by photopolymers. These materials serve as bioinks for 3D bioprinting, facilitating the fabrication of complex tissue structures, including artificial organs and scaffolds for tissue regeneration. Photopolymer-based bioinks allow for the precise layer-by-layer deposition of living cells, creating functional tissues that hold tremendous promise in organ transplantation and regenerative therapies. The demand for photopolymers in tissue engineering continues to rise as researchers and clinicians explore innovative ways to address organ shortages and improve patient outcomes. All these factors dominate the growth of Global Photopolymers Market in the upcoming years.

### Growing Demand of Photopolymers in Audiology

The audiology sector, dedicated to diagnosing and treating hearing-related conditions, is experiencing a remarkable transformation, thanks to advancements in photopolymers. These versatile light-sensitive materials have become essential components in the development of cutting-edge hearing aids, diagnostic tools, and personalized auditory solutions. One of the primary drivers of photopolymer demand in audiology is the evolution of hearing aid technology. Photopolymers are instrumental in the miniaturization of hearing aids, enabling the creation of smaller, more discreet devices that offer enhanced comfort and aesthetics. With precise 3D printing capabilities, photopolymers facilitate the customization of hearing aids to fit the unique anatomy of each patient's ear canal, improving both comfort and sound quality. The demand for these personalized and inconspicuous hearing solutions is on the rise as individuals seek to address their hearing impairments without compromising on style or comfort. In addition to conventional hearing aids, photopolymers are integral in the development of implantable auditory devices. Cochlear implants, for instance, rely on biocompatible photopolymer materials to house the electronic components securely within the body. These implantable devices restore hearing for individuals with severe hearing loss and offer a long-lasting solution. The demand for cochlear implants and similar devices is growing as the audiology sector continues to explore innovative ways

to provide effective auditory rehabilitation to a broader range of patients.

Moreover, audiological diagnostics greatly benefited from photopolymers, which enable the creation of high-precision diagnostic tools. Photopolymer-based microfluidic devices and lab-on-a-chip platforms enhance the accuracy and efficiency of hearing tests, allowing for rapid and highly sensitive assessments of hearing function. These advanced diagnostic tools are pivotal in identifying hearing impairments at an early stage, enabling prompt intervention and personalized treatment plans. The demand for such tools is driven by the need for accurate and timely diagnoses, which are critical for improving patient outcomes. Thus, increasing demand for Photopolymers led to the growth of the market.

### Key Market Challenges

#### Raw Material Costs and Intellectual Property Concerns Poses a Significant Obstacle to Market Expansion

One of the most pressing challenges in the photopolymers market is the cost of raw materials. Photopolymer formulations often require specialized compounds and additives, which can be expensive. Fluctuations in the prices of these raw materials, especially those derived from petrochemicals, can significantly impact the production costs of photopolymer resins. Manufacturers are continuously seeking ways to mitigate this challenge by exploring alternative, more cost-effective feedstocks and optimizing their production processes to reduce material wastage.

Moreover, as competition intensifies, protecting intellectual property (IP) becomes a paramount concern. Developing unique photopolymer formulations and manufacturing processes demands significant investments in research and innovation. However, safeguarding these IP assets can be challenging, as the risk of infringement or misappropriation remains ever-present. Companies must invest in robust IP protection strategies, including patents and trademarks, and enforce them effectively to secure their innovations in the market.

#### Environmental Concerns and Regulatory Compliance

In an era marked by increasing environmental consciousness, photopolymer manufacturers are under growing pressure to develop eco-friendly products. Traditional photopolymers may contain volatile organic compounds (VOCs) that contribute to air pollution. Additionally, the energy-intensive UV curing process used in

photopolymerization raises questions about energy efficiency and carbon footprint. Addressing these environmental concerns necessitates research into low-VOC formulations and the development of more energy-efficient curing technologies, such as LED UV curing.

Moreover, regulatory compliance is a complex and ever-evolving challenge in the photopolymers market. Different regions and industries may have varying regulations regarding the use of photopolymer materials, especially those intended for medical devices and food packaging. Meeting these stringent requirements can be a cumbersome process that requires extensive testing, documentation, and regulatory approval. Companies operating in multiple markets must invest in robust regulatory departments and quality control measures to ensure compliance with diverse sets of regulations.

## Key Market Trends

### Advancements in Material Science

Advancements in material science have led to the development of photopolymers with enhanced properties and functionalities. Researchers and manufacturers are continually exploring new formulations and additives to meet the diverse requirements of various industries. For instance, the healthcare sector demands biocompatible photopolymers for medical device manufacturing, while the aerospace industry seeks lightweight, high-performance materials for prototyping and tooling applications. These advancements are expanding the range of applications and driving market growth. One of the most significant developments in the photopolymers market is their crucial role in the 3D printing revolution. Stereolithography (SLA) and digital light processing (DLP) technologies, which rely on photopolymers, have gained widespread acceptance in various industries. These technologies enable the rapid prototyping and production of complex, high-precision components, and products. As 3D printing continues to evolve and penetrate new sectors, the demand for advanced photopolymers with improved properties such as strength, flexibility, and biocompatibility is on the rise.

### Medical and Healthcare Applications

The healthcare industry has emerged as a major consumer of photopolymers due to their suitability for medical device manufacturing. Dental prosthetics, orthopedic implants, and patient-specific anatomical models are being produced with the precision and customization offered by photopolymer-based 3D printing. Furthermore,

bioresorbable photopolymers are being researched for applications like drug delivery systems, promising groundbreaking developments in personalized medicine.

Furthermore, the electronics and semiconductor sectors have embraced photopolymers for the fabrication of microelectromechanical systems (MEMS) and microfluidic devices. Photopolymers are well-suited for creating intricate structures at the micro and nanoscale, facilitating the miniaturization of electronic components and the development of innovative sensors and devices. As consumer electronics and semiconductor technologies continue to advance, photopolymers are likely to play a pivotal role in enabling these innovations.

### Packaging and Labeling

Photopolymers have found applications in the packaging and labeling industry due to their exceptional print quality and durability. UV-curable inks and coatings, which utilize photopolymers, offer fast curing times and resistance to abrasion and chemicals. This makes them ideal for applications such as food packaging, labels, and flexible packaging. As consumer expectations for product packaging evolve, photopolymers are helping brands create eye-catching, sustainable, and functional packaging solutions.

Moreover, with an increasing emphasis on sustainability, the photopolymers market is also witnessing a shift towards more eco-friendly formulations. UV-curable inks and coatings based on renewable and biodegradable photopolymers are gaining traction. Additionally, efforts are being made to develop photopolymers with reduced volatile organic compound (VOC) emissions during curing, addressing environmental concerns and regulatory requirements.

### Segmental Insights

#### Performance Insights

Based on the category of performance insights, high performance emerged as the dominant player in the global market for Photopolymers in 2022. High-performance 3D printing encompasses technologies renowned for their exceptional attributes, including rapid production, pinpoint accuracy, extensive material choices, and top-tier print quality. These cutting-edge 3D printing methods encompass Selective Laser Melting (SLM), Electron Beam Melting (EBM), Continuous Liquid Interface Production (CLIP), and Multi-Material 3D Printing. Mid-performance 3D printing, on the other hand, strikes a balance between cost-effectiveness and performance. This category encompasses

technologies such as Digital Light Processing (DLP), Multi Jet Fusion (MJF), Poly Jet, and Bound Metal Deposition (BMD) as offered by Desktop Metal. While they provide commendable printing speed, precision, and material versatility, they do not reach the pinnacle of performance seen in advanced or industrial-grade systems.

Furthermore, low-performance 3D printing refers to less advanced iterations of 3D printing technologies characterized by limited speed and accuracy, as well as compatibility with a limited range of materials. Methods falling within this category include Fused Deposition Modeling (FDM), Selective Laser Sintering (SLS), and binder jetting. However, the growing demand for robust 3D-printed products that can be produced efficiently has prompted 3D printer manufacturers and technology providers to introduce highly sophisticated 3D printing equipment specifically designed for the production of these items.

### Technology Insights

Based on the category of technology insights, SLA emerged as the dominant player in the global market for Photopolymers in 2022. SLA stands as the prevailing 3D printing technology on a global scale, widely adopted for the creation of three-dimensional objects. This method employs laser light sources to execute the 3D printing process. Over recent years, there has been a substantial surge in the worldwide demand for SLA-based 3D printing. This surge can be attributed to the technology's remarkable capacity to produce components within the range of 25 to 300 microns with a high XY resolution. It does so by utilizing plastic resins and photopolymers. In stark contrast to the conventional SLA-based 3D printing technology, digital light processing (DLP)-based 3D printing takes a different approach. Here, arc lamps serve as the light source for the creation of 3D printed objects, as opposed to laser beams. DLP-based 3D printing is particularly well-suited for crafting intricate resin designs, finding applications in industries such as jewelry, toys, figurines, dental molds, and more.

Furthermore, continuous digital light processing (cDLP) stands out as a vat-polymerization-based 3D printing technology, offering high-volume and scalable component production capabilities. Its precision surpasses that of traditional DLP-based 3D printing. This superiority stems from its immediate product ejection process, which employs an oxygen (O<sub>2</sub>) membrane to prevent the formation of a vacuum during the printing operation.

### Application Insights



Based on the category of application, dental emerged as the dominant player in the global market for Photopolymers in 2022. Photopolymers have emerged as game-changers in the field of dentistry, offering a plethora of benefits that have revolutionized dental practices and patient care. These remarkable light-sensitive materials have reshaped the way dental professionals' approach various procedures, from restorative dentistry to orthodontics and prosthetics. One of the standout advantages of photopolymers in dentistry is their exceptional precision. Dental restorations, such as fillings and crowns, demand a high degree of accuracy to ensure a perfect fit and alignment with the patient's natural teeth. Photopolymer-based composites excel in this regard, as they can be precisely color-matched to blend seamlessly with the patient's dentition. This results in aesthetically pleasing restorations that are virtually indistinguishable from natural teeth, enhancing the patient's smile and confidence.

### Regional Insights

Europe emerged as the dominant player in the global Photopolymers market in 2022. In Europe, the demand for photopolymers has been on a steady rise, driven by a range of industries and applications that have recognized the transformative potential of these light-sensitive materials. The continent's manufacturing sector, including the automotive and aerospace industries, has increasingly turned to photopolymers for rapid prototyping and the production of intricate components. The ability of photopolymer-based 3D printing technologies to deliver precision, speed, and versatility has positioned them as invaluable tools in these industries, reducing lead times and costs while enabling the creation of complex parts with ease. The healthcare sector in Europe has also witnessed a surge in demand for photopolymers, particularly in dentistry and orthopedics. The technology's precision and biocompatibility make it an ideal choice for creating custom dental implants, prosthetics, and orthodontic devices, meeting the growing demand for personalized healthcare solutions. Additionally, photopolymers have found applications in the production of medical equipment and diagnostic devices, further fueling their adoption across the healthcare landscape.

### Key Market Players

Henkel AG & Co. KGaA

Arkema S.A.

Evonik Industries AG

BASF SE

ANYCUBIC Technology Co., Ltd.

Keystone Industries

Stratasys Ltd.

Liqcreate

Photocentric Ltd., U.K.

Carbon, Inc.

Report Scope:

In this report, the Global Photopolymers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Photopolymers Market, By Performance:

Low

Mid

High

Photopolymers Market, By Technology:

SLA

DLP

cDLP

Photopolymers Market, By Application:

Dental

Medical

Audiology

Jewellery

Automotive

Others

Photopolymers Market, By Region:

Asia-Pacific

China

India

Australia

Japan

South Korea

Europe

France

Germany

Spain

Italy

United Kingdom

North America

United States

Mexico

Canada

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Photopolymers Market.

Available Customizations:

Global Photopolymers Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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