

Global Temporary Bonding Protective Ink Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Temporary Bonding Protective Ink market size is expected to reach \$ 149 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

??
????????????UV????????????????????????????????RDL????????????????????????????
??35%?

Temporary bonding protective inks are a small but critical segment within advanced packaging materials. Demand grows with thin-wafer handling, 2.5D/3D packaging, fan-out, HBM, and power-device backside processing. Their value lies in maintaining stability under high temperature, vacuum, wet-chemical, and mechanical thinning conditions while minimizing wafer breakage, warpage, and residue cleanup costs during debonding.

In terms of supply, overseas companies such as 3M and Brewer Science have early experience in temporary bonding/debonding material systems, while domestic suppliers like Feikai Materials, Yun Zhuo New Materials, and Dinglong Co. are advancing localized alternatives through advanced packaging customer certifications. Product validation cycles are long and typically require coordination with bonding equipment, laser debonding systems, carriers, and cleaning processes. Once adopted, customers focus on process window and yield stability.

Over the next six years, growth will be driven primarily by demand from HBM, chiplet, and power semiconductor applications requiring high-yield processing of thin wafers. However, the market remains highly customized and certification-driven, with a scale

significantly smaller than general-purpose electronic adhesives and packaging adhesives.

This report studies the global Temporary Bonding Protective Ink production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Temporary Bonding Protective Ink and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Temporary Bonding Protective Ink that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Temporary Bonding Protective Ink total production and demand, 2021-2032, (kg)

Global Temporary Bonding Protective Ink total production value, 2021-2032, (USD Million)

Global Temporary Bonding Protective Ink production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Temporary Bonding Protective Ink consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Temporary Bonding Protective Ink domestic production, consumption, key domestic manufacturers and share

Global Temporary Bonding Protective Ink production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Temporary Bonding Protective Ink production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Temporary Bonding Protective Ink production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Temporary Bonding Protective Ink market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 3M, Brewer Science, AI Technology, HD MicroSystems, Nissan Chemical, Tokyo Ohka Kogyo, Toray, Daxin Materials, PhiChem, Yunzhuo New Materials, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Temporary Bonding Protective Ink market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Temporary Bonding Protective Ink Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Temporary Bonding Protective Ink Market, Segmentation by Type:

Laser Debonding Type

Thermal Slide Debonding Type

Mechanical Peel Debonding Type

UV Debonding Type

Solvent Release Type

Global Temporary Bonding Protective Ink Market, Segmentation by Material System:

Photothermal Conversion Ink

Acrylate UV-Curable Coating

Polyimide-Based Release Coating

Thermoplastic Polymer Coating

Silicone-Based Bonding Coating

Wax-Based Temporary Bonding Coating

Global Temporary Bonding Protective Ink Market, Segmentation by Process Temperature:

Low Temperature Process Type

Medium Temperature Process Type

High Temperature Process Type

Ultra-High Temperature Process Type

Global Temporary Bonding Protective Ink Market, Segmentation by Coating and Delivery Form:

Spin-Coating Liquid

Slot-Die Coating Liquid

Spray-Coating Liquid

Pre-Applied Film or Sheet

Global Temporary Bonding Protective Ink Market, Segmentation by Application:

Thin Wafer Backgrinding Support

TSV And 3D IC Processing

Fan-Out Wafer-Level Packaging

Fan-Out Panel-Level Packaging

Power Semiconductor Wafer Thinning

Compound Semiconductor Thin Wafer Handling

MEMS Wafer Processing

RDL And Bump Processing

Companies Profiled:

3M

Brewer Science

AI Technology

HD MicroSystems

Nissan Chemical

Tokyo Ohka Kogyo

Toray

Daxin Materials

PhiChem

Yunzhuo New Materials

Hubei Dinglong

Resonac

Sekisui Chemical

Mitsui Chemicals

Nitto Denko

Key Questions Answered:

1. How big is the global Temporary Bonding Protective Ink market?
2. What is the demand of the global Temporary Bonding Protective Ink market?
3. What is the year over year growth of the global Temporary Bonding Protective Ink market?
4. What is the production and production value of the global Temporary Bonding Protective Ink market?
5. Who are the key producers in the global Temporary Bonding Protective Ink market?
6. What are the growth factors driving the market demand?

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