TESK

Industrial Adhesive & Resin Solutions

Product Catalog

TESK Philosophy: Total Support for Adhesive Technology

TESK CO., LTD., established in 1998, is a specialized manufacturer of UV curable resins and epoxy resins. Based on proprietary know-how in fine chemicals and extensive experience, we supply world-class new products to the industry.

TESK's management philosophy is 'Total Coordination of Adhesives.' Beyond simple product supply, we support every step of the customer's success, from adhesive design and development to technical support for mass production application.

History of Innovation and Global Growth

- **1998.04:** Established TESK CO., LTD (Tokyo, Japan)
- **2007.05:** Established Shanghai Yongguang Trading Co., Ltd. (Shanghai, China)
- **2011.07:** Opened Yamanashi Factory (Yamanashi, Japan)
- **2017.04:** Expanded Hachioji R&D Center (Tokyo, Japan)
- **2025.01:** Established INDONESIA PT. TESK MAJU JAYA (Indonesia)
- **2025.04:** Established TESK VIETNAM CO., LTD. (Hanoi, Vietnam)

JAPAN	(HQ, R&D, Manufacturing)
CHINA	(Sales & Support)
VIETNAM	(Sales & Technical Support)
INDONESIA	(Sales & Technical Support)

Key Products and Technologies

	Resin Type	Chemical Type	Curing Method	Key Features
	UV Curable Resin	Acrylate, Epoxy	UV Irradiation, UV Irradiation (Cationic)	Fast curing time, cost-effective, diverse physical properties available.
	Anaerobic Resin	Acrylate	Air Exclusion (Metal Bonding)	Metal part fixing and sealing, surface curing possible with UV combination.
	Epoxy Resin	1-Part, 2-Part	Heat, Room Temp or Heat (Base + Hardener)	1-Part (Excellent workability, no mixing), 2-Part (Room temp cure, flexibility and transparency).
	Hybrid Type	UV+Heat / UV+Anaerobic	UV Irradiation + Secondary Cure	Shadow area curing, process reduction, high reliability bonding.

Key Solutions: Low-Temp Curing & Hybrid Epoxy

B-1219 Series: 60°C Low-Temp Curing Epoxy

- → Revolutionary 60°C low-temperature curing capable
- → Excellent adhesion to plastics
- → Superior adhesion to glass and metal
- → Stability for precision components
- → *Refrigerated Storage Required*

A-3399 Series: UV + Heat Hybrid

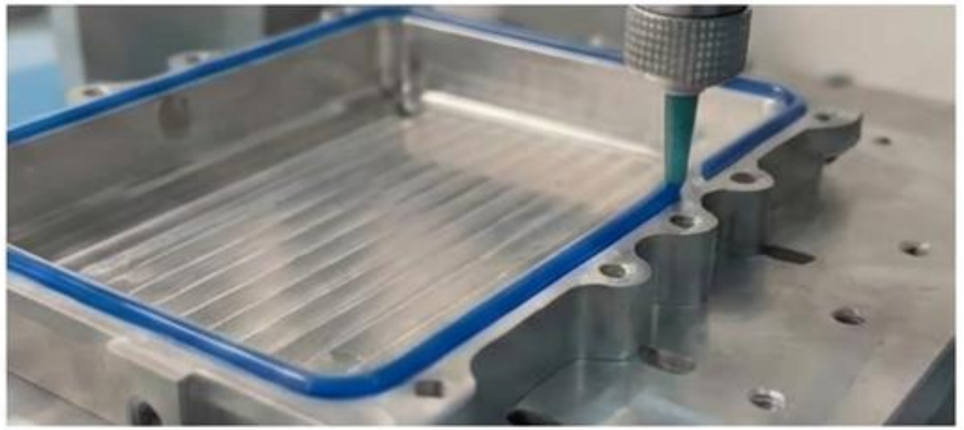
- → Perfect curing even in UV shadow areas (UV + Heat)
- → No "Resin Bleeding Out" phenomenon
- → Fast process speed and high reliability

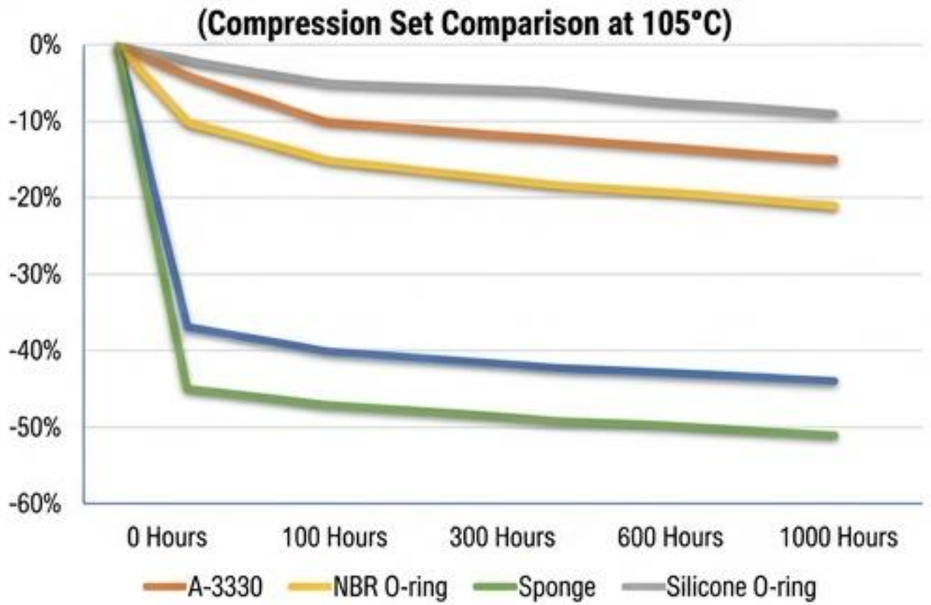
Application: Liquid Gasket (CIPG - Cured-In-Place Gasket)

Innovative solution replacing urethane foam and sponge gaskets

The A-3330 Series is a UV-curable liquid sealing material used for housing sealing in automotive cameras, sensors, and rugged speakers. It enables precision application even on complex shapes and exhibits soft, sponge-like properties with low compression set after curing.

- ✓ **Improved Workability**: Suitable for automated processes, simplified inventory management
- ✓ **Excellent Sealing**: Low permanent deformation set comparable to O-rings
- ✓ **High Flexibility**: Softness similar to sponge
- ✓ **Superior Surface Curing** & **Low Absorption** (1.5%)





Overcoming Limitations of Traditional Sealing with UV CIPG

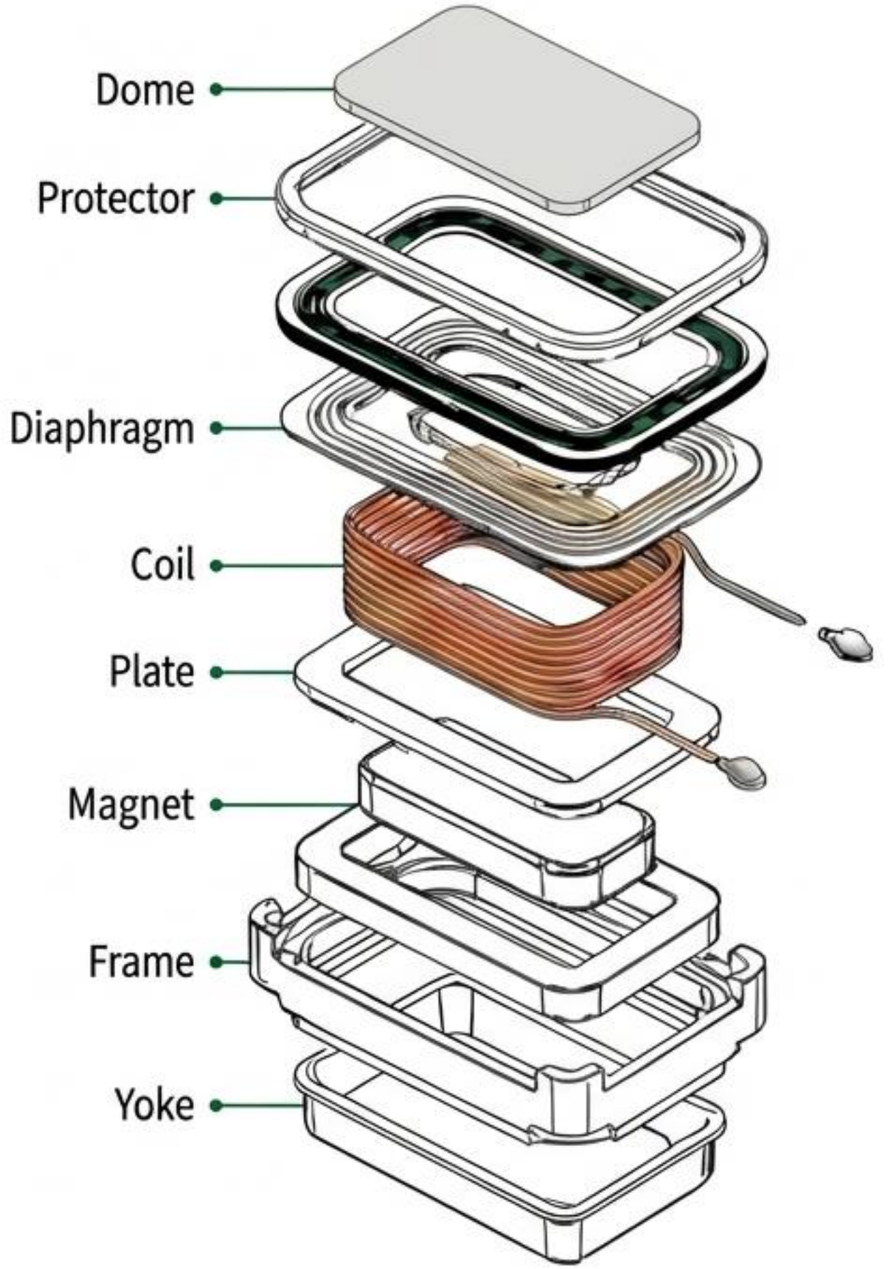
Category	Solid Gasket	FIPG (Silicone)	TESK UV CIPG (UV Curable)
Curing Method	Mechanical Fixing	Moisture cure / Heat	Instant cure via UV irradiation
Process Speed	Fast (Assembly)	Days required (Full cure)	Cures in seconds
Automation	Impossible (Manual)	Partial (Wait after dispensing)	Fully Automated (Dispense-Cure inline)
Design Freedom	Low (Mold required)	High (Free pattern)	Very High (Precision, micro-patterns possible)
Reliability	Sensitive to flatness	Hardening at high temp / Recovery loss	Excellent heat resistance & long-term recovery

TESK's UV CIPG technology is a next-generation solution that outperforms existing methods in process speed, automation, design flexibility, and reliability.

Micro Speaker

TESK's original bonding technology for corrosion-sensitive TPU/TPEE materials. Our dedicated resin, which fundamentally solves diaphragm corrosion issues, has passed strict reliability standards of global leading companies and is adopted in various high-end mobile devices.

Grade	Application	Features
A-3118C	Edge	Excellent adhesion to Aluminum, PC, PI, UV cure
A-3283E	Center	LCP, Metal, Coil bonding, UV cure
A-2668K	Dome	Low corrosivity to TPU, TPEE materials, UV cure
A-1720	Magnet Fixing	UV+Anaerobic (Actual anaerobic use)
A-3239	Lead Wire Fixing	UV cure, very low hardness and elastic shock absorption
A-3293E	Center	Coil diaphragm bonding, UV cure
A-3192B	Frame Fixing	Specialized for LCP metal bonding, UV cure
A-3115	Frame Fixing	PC bonding, UV cure
A-2903	Solder	Solder and lead wire protection potting, UV cure



Application: Automotive

Camera, LiDAR, UV CIPG, and Interior/Exterior Bonding Solutions

TESK's bonding solutions meet the stringent requirements of the automotive industry, ranging from housing sealing for automotive cameras, sensors, and rugged speakers to infotainment systems and interior material bonding.

Application: Electronics & Camera Modules

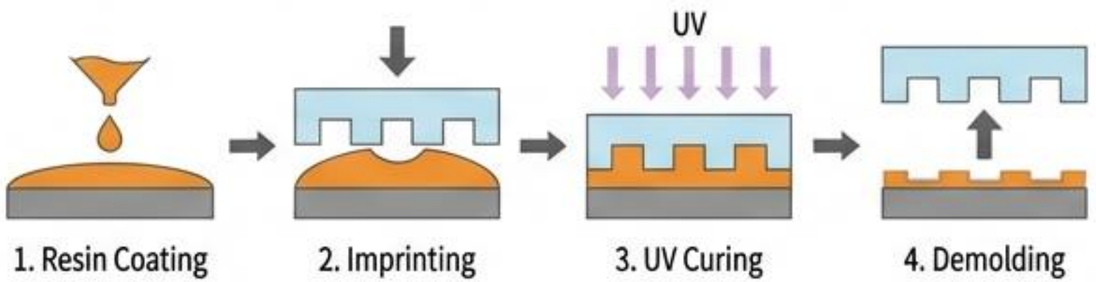
Lens fixing and sensor bonding requiring high reliability

Product	Application
A-3073M	Automotive Lens Bonding (Glass/Glass)
B-1224	AA Process, Automotive Lens (Al/PCB) Bonding
B-1219	PCB/LCP Bonding, UV Pre-cure possible
A-3197	Camera Lens Housing Potting, High Refractive Index
A-3192B	LCP Bonding Specialized UV Resin

Nano-imprint and Optical Components

Ultra-fine patterning and high-transparency optical film bonding

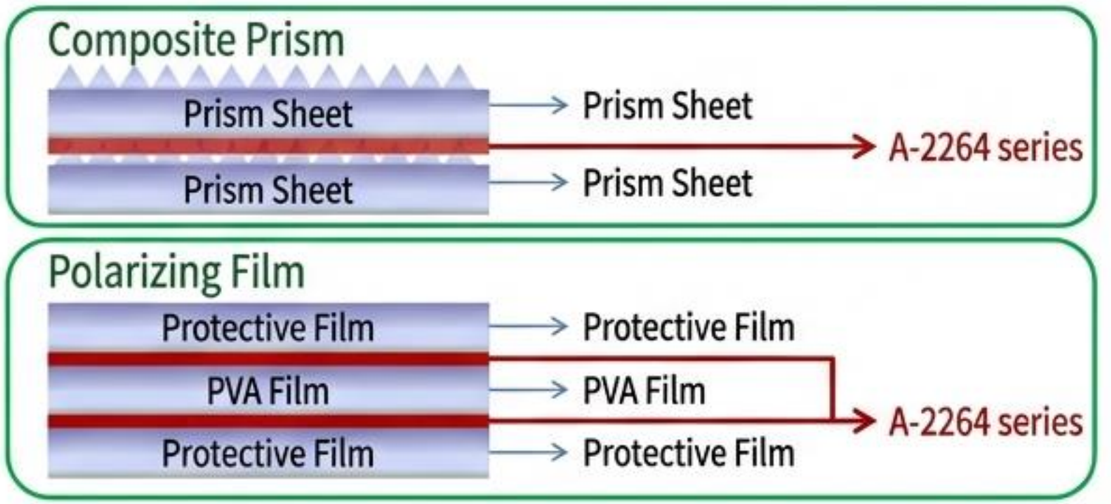
Nano-imprint



Resin for nano-imprint processes in semiconductor and display fields. Boasts excellent transferability and fast working speed, maintaining high transparency without discoloration even in high temp/high humidity environments (85°C/85%RH, 1000H).

Key Product: A-3350 Series

Optical Adhesives



Used for bonding various optical films (PET, PMMA, PC) such as prism sheets and polarizing films. Low viscosity allows for thin coating at the μm level and is applicable to Roll-to-Roll processes.

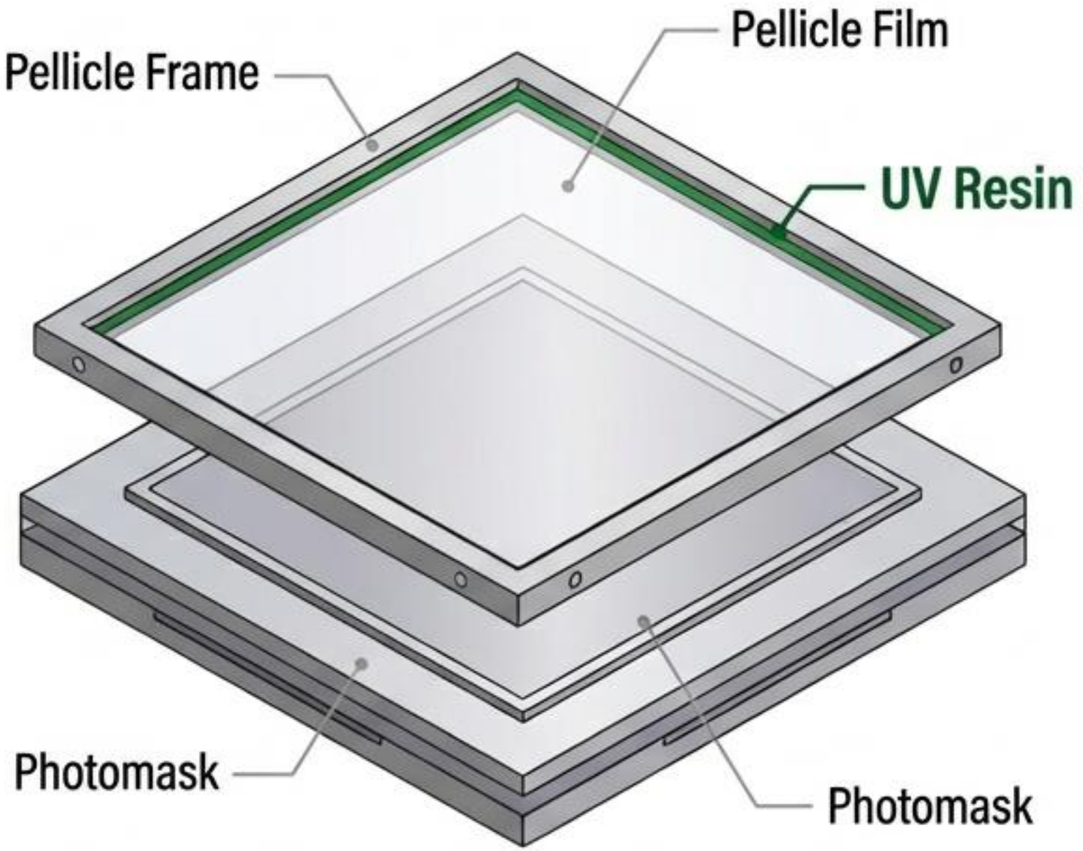
Key Product: A-2264 Series (Over 10 years of sales track record)

Semiconductor

High-performance UV resin for Pellicle bonding

Pellicles are core components that protect expensive photomasks from contamination. TESK's UV resin has been applied for over 3 years in high-difficulty processes bonding thin films under 1μm to aluminum frames, proving its performance.

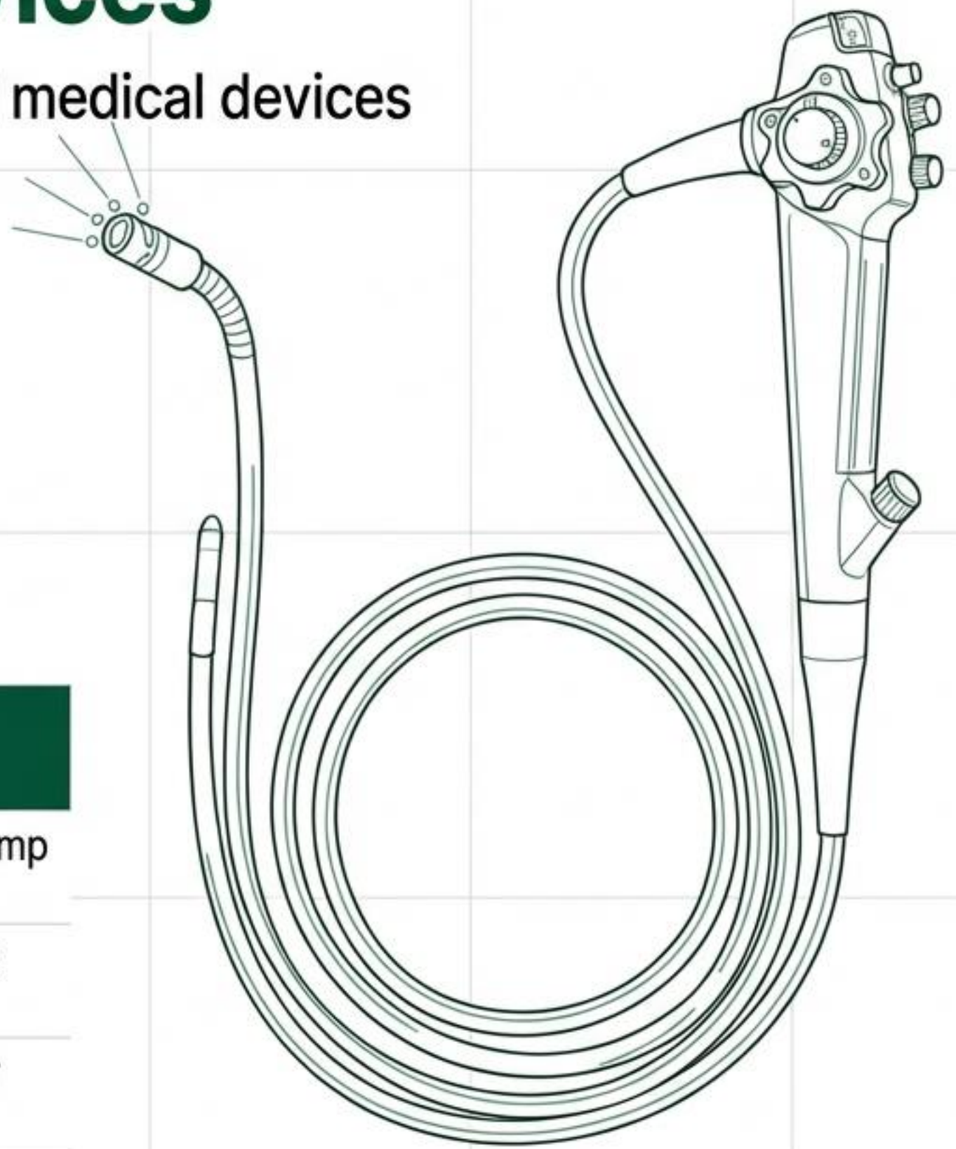
- ✓ **Fast Workability:** Reduces process time with 1-part UV curing type.
- ✓ **Low Corrosivity:** Does not damage sensitive pellicle films, ensuring high yield.
- ✓ **Proven Track Record:** Secured reliability through long-term use at major pellicle manufacturers.
- ✓ **Customization:** Viscosity, color, etc., can be adjusted according to requirements.



Healthcare and Medical Devices

High-durability bonding solutions for endoscopes and medical devices

TESK supplies special adhesives used in the assembly of medical devices such as endoscope insertion parts. Verified for durability against low-temperature plasma sterilization and various disinfectants, satisfying the strict requirements of medical environments.



Grade	Type	Features
B-1026B	1-Part Epoxy	For endoscope parts, resistant to low-temp plasma sterilization and disinfectants.
C-1344A/B	2-Part Epoxy	Room temp curing possible, forms tough physical properties after curing.
A-3280	UV Acrylate	Medical use, excellent moisture/weather resistance, low water absorption (1%).

New Business: UV Flooring and Interior Solutions

UV coating technology with over 20 years of track record

UV Flooring Coating: Fast curing speed and excellent durability proven at actual construction sites.

Interior Wall Coating: Application example at a global luxury brand store.

Customer Customized Solution Development Process

Customer Requirement Analysis
Identify final product info, usage process, required properties, and usage volume.

→

HQ Technical Review
Judge applicability of existing products and confirm technical suitability.

→

Sample Production & Provision
Produce small quantity test samples and suggest optimal mass production conditions.

→

Performance Test & Feedback
Customer performance evaluation and process application test.

→

Specification Confirmation & Mass Production
Finalize properties, determine mass production conditions, continuous technical support.

Technical Inquiries and Sample Requests

We propose the optimal adhesive solutions necessary for your product development and process improvement. If you need detailed product info, technical data, or samples, please contact TESK VIETNAM at any time.

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