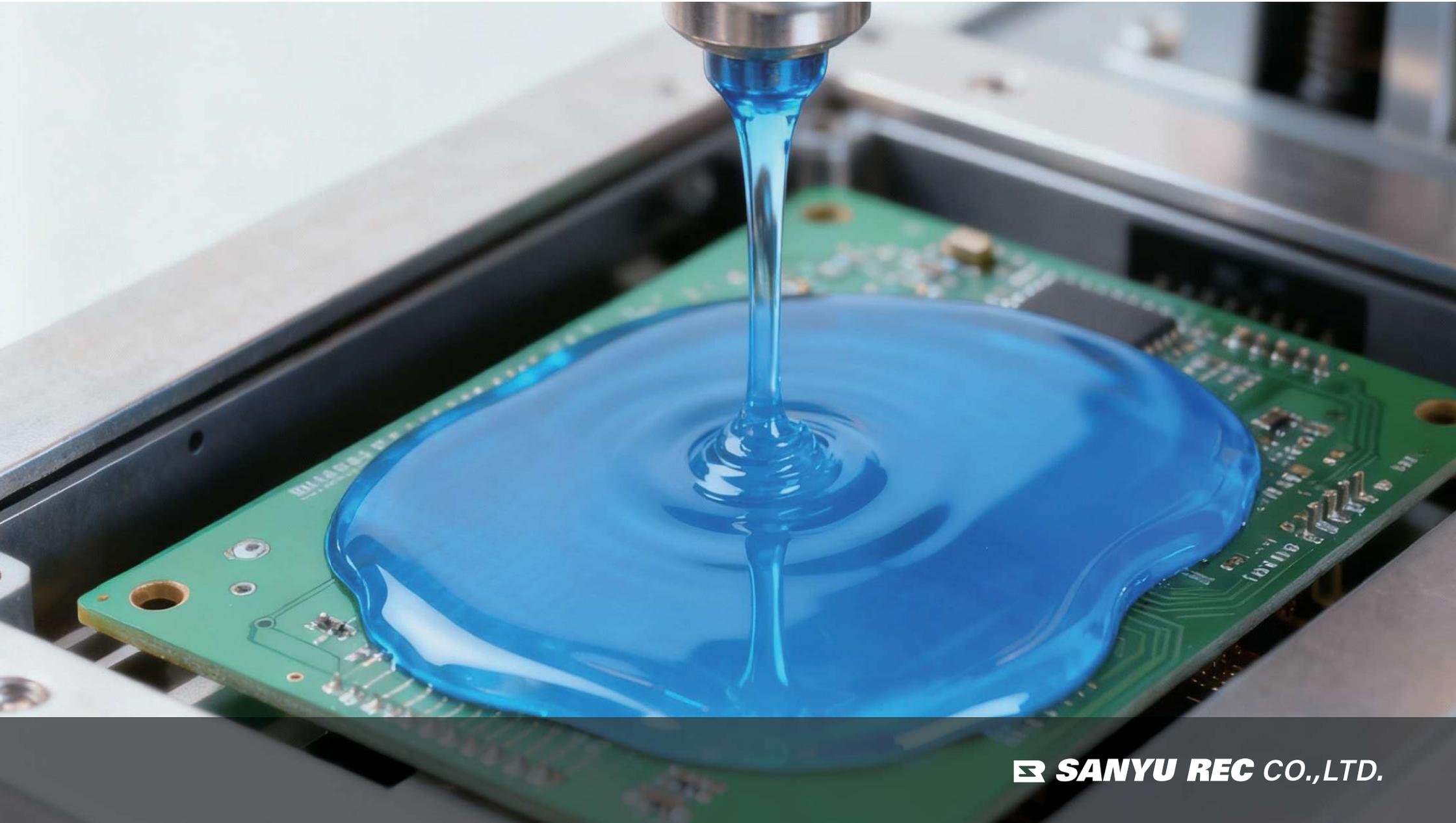


SANYU RESIN

Solutions for Automotive Electronic Components



SANYU REC CO.,LTD.

About SANYU REC

Company Overview

For more than 60 years, SANYU REC has been supporting Japan's electric and electronic components industry with advanced formulation technologies for epoxy and urethane resins.

Our expertise is highly recognized across the world, including in Asia, Europe, and North America.

In the automotive field, we develop materials with outstanding heat resistance, moisture resistance, and reliability.

These materials are widely used in sensing devices, control modules, and engine components, contributing to the advancement of next-generation mobility, including electrification and autonomous driving.

We are also committed to environmentally responsible manufacturing by utilizing biomass-derived raw materials and promoting sustainable practices.

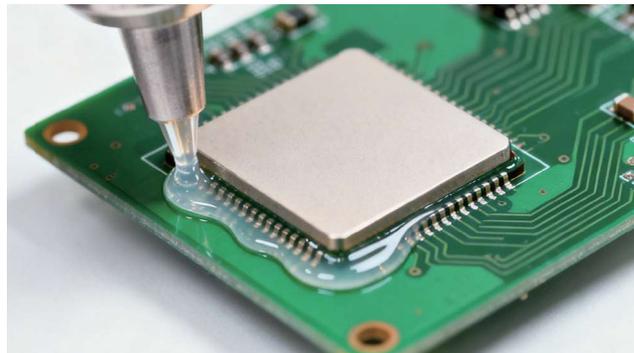
Corporate Philosophy & Vision

As a polymer materials manufacturer originating from Japan, SANYU REC continues to grow together with customers worldwide.

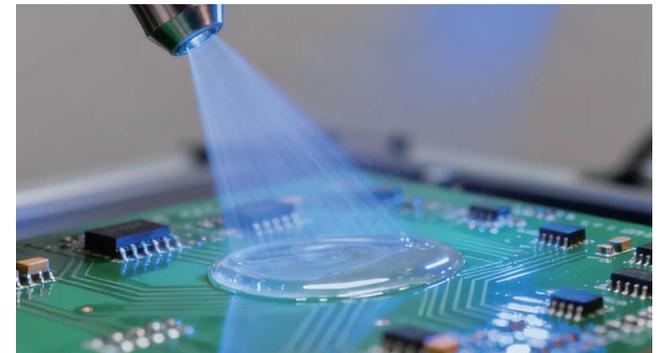
Through high-quality and innovative material technologies, we are dedicated to creating a safe and sustainable society.



Potting



Adhesives



Coating

Main Analysis and Evaluation Equipment

- Physical Property : Tensile testing machine, DMA, TMA
- Thermal Property : DSC, TGA
- Reliability and Environment : Temperature and humidity chamber, Thermal shock tester
- Electrical Property : Volume resistivity meter, LCR meter
- Chemical Analysis : FT-IR, SEM, EDX

Certifications

Company Certifications

IATF
16949

ISO
9001

ISO
14001

Material Certifications

UL94

RTI

HWI/
HAI

EU Guidelines/Regulations

RoHS

REACH
SVHC

Worldwide Location



SANYU REC CO.,LTD.

Head office



Postal code: 569-8558,
3-5-1, Douchou, Takatsuki City,
Osaka, Japan

TEL: +81-72-669-4301

<https://www.sanyu-rec.jp/en/>



SHANGHAI SANYU RESIN CO., LTD.
China (Shanghai)



SANYU JUSHI SDN. BHD.
Malaysia (Seremban)



ESP chemical Co., Ltd.
Republic of Korea (Seoul)



Contract Manufacturer
Italy (Milan)



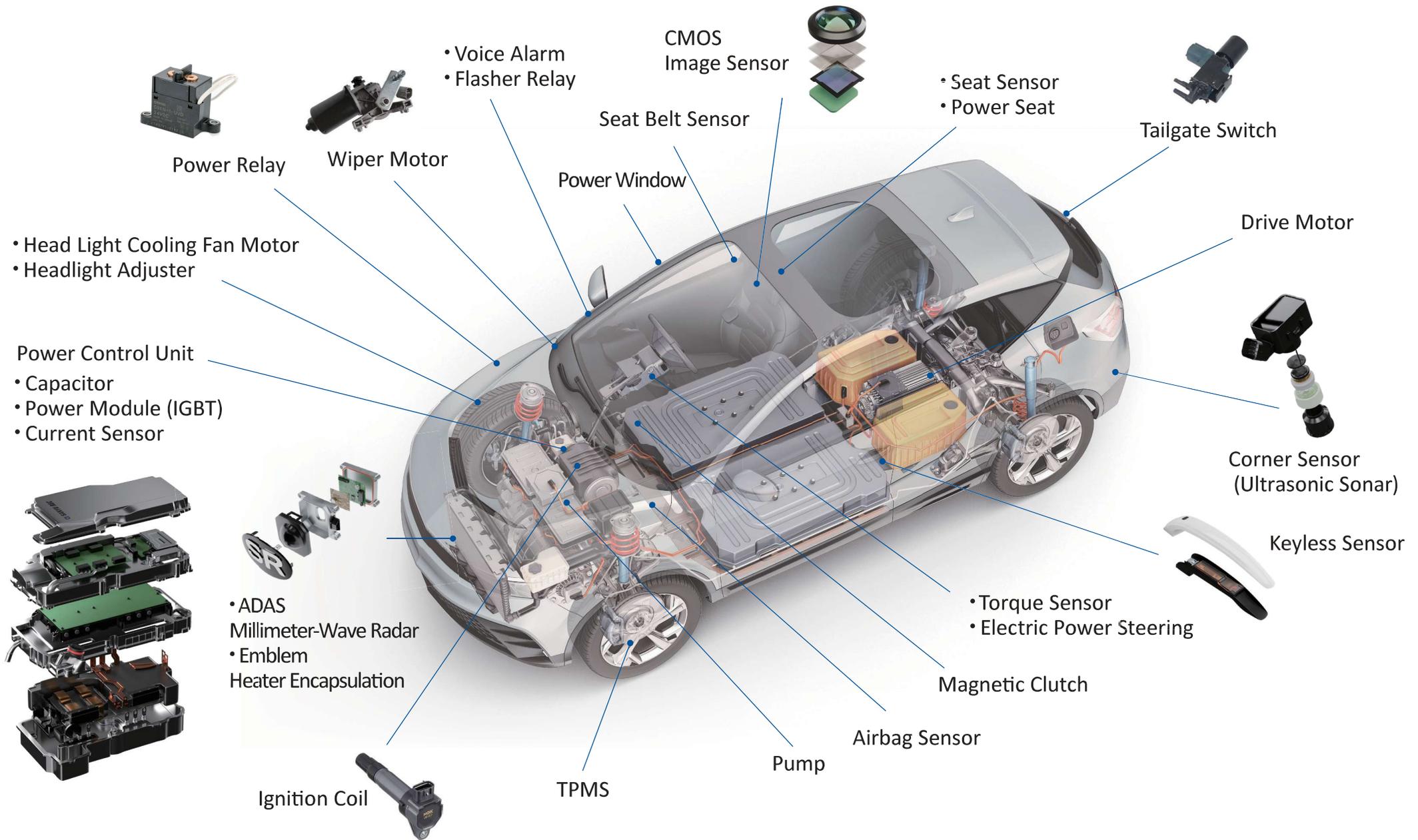
SANYU TRADING (SHANGHAI)CO.,LTD.
Shanghai / Shenzhen / Chengdu / Tianjin / Dalian

SANYU REC India
India (Bengaluru)

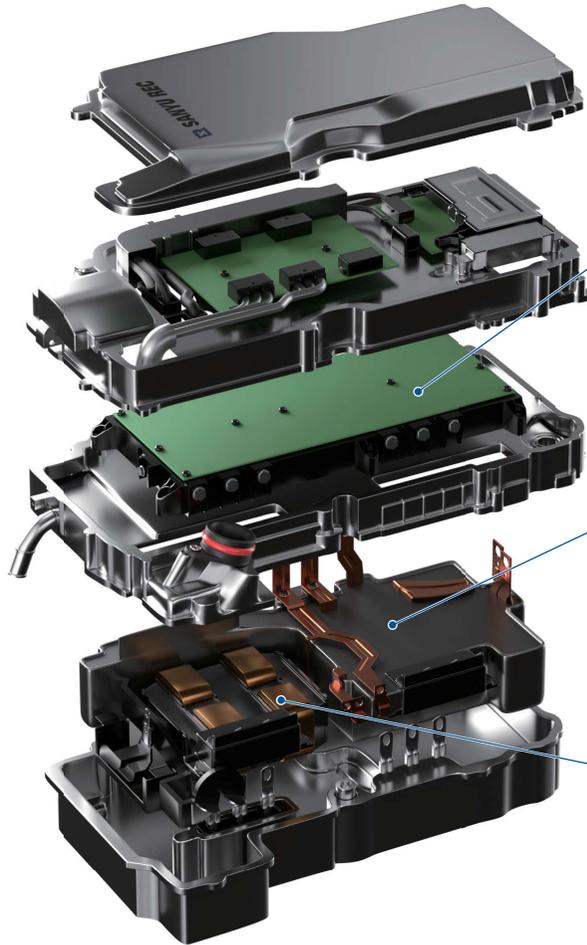
SANYU SIAM TRADING CO., LTD.
Thailand (Bangkok)

SANYU TRADING EUROPE S.r.l
Italy (Milan)

SANYU REC Solutions for Automotive Electronic Components



Power Control Unit



Power Module (IGBT)

● **Product Name:** EC-348/H-548

Two-component epoxy resin

● **Features:**

High heat resistance, UL 94 V-0 flame retardancy, excellent thermal cycle resistance

● **Benefits:**

Low thermal expansion coefficient (CTE) helps prevent delamination from ceramic substrates.



Capacitor

● **Product Name:** EC-295/H-560

Two-component epoxy resin

● **Features:**

Low moisture permeability, excellent thermal cycle resistance

● **Benefits:**

Prevents moisture ingress and improves humidity durability; reduces the risk of cracks around bus bars.



Current Sensor

● **Product Name:** UF-2581

Two-component polyurethane resin

● **Features:**

High moisture resistance, high thermal conductivity, low hardness (soft), high flexibility

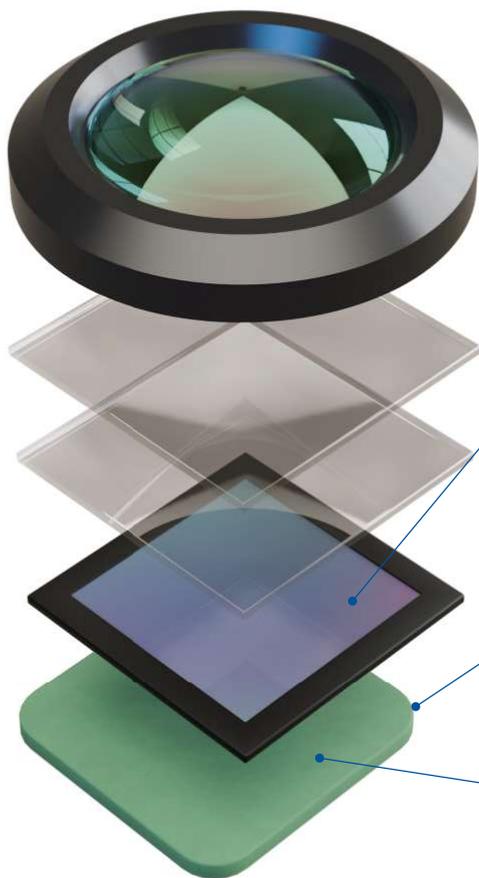
● **Benefits:**

Absorbs stress caused by thermal expansion and vibration; efficiently dissipates heat to keep component temperatures under control.



Sensing Device

CMOS Image Sensor



● Product Name: SD-702-1

One-component epoxy resin

- Features:
Sealant, Low CTE, high adhesion strength, PFAS-free
- Benefits:
Strong glass adhesion prevents delamination and maintains the designed glass-to-chip gap.

● Product Name: EF-413-3

One-component epoxy resin

- Features:
Encapsulant, Low CTE, low outgassing, PFAS-free
- Benefits:
Protects bonding wires and bonds well to glass without contamination or resin bleed.

● Product Name: SD-337

One-component epoxy resin

- Features:
Die-Attach, Low warpage, low modulus, bleed-free, PFAS-free
- Benefits:
Minimizes mechanical stress on CMOS dices with low modulus and minimal warpage.

Sensing Device

ADAS Millimeter-Wave Radar

● Product Name: SU-3600

Two-component polyurethane resin

- Features:
Heat resistant up to 120 °C
- Benefits:
Maintains long-term sealing with minimal thermal degradation; protects substrates from moisture and condensation.



Corner Sensor (Ultrasonic Sonar)

● Product Name: UE-909

Two-component polyurethane resin

- Features:
Low hardness (soft), high flexibility, high moisture resistance
- Benefits:
Follows thermal deformation to reduce cracking and delamination.



Emblem Heater Encapsulation

● Product Name: SZ-2055

Two-component polyurethane resin

- Features:
Weather resistant, heat resistant up to 150 °C
- Benefits:
Resists heater heat, outdoor exposure, UV, and ozone; maintains insulation performance over time.



Door Sensor (Keyless Sensor)

● Product Name: SU-2180

Two-component polyurethane resin

- Features:
High strength, high moisture resistance
- Benefits:
Withstands external impact and vibration; shields substrates from moisture and condensation.

