Supply Chain Explorer: Packaging materials

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Packaging materials

Semiconductor packaging involves several steps to bond a fabricated chip to an encasing package, each requiring different materials. For example, a bond wire, typically made of aluminum, copper, silver, or gold, attaches the chip to a lead frame. The lead frame transfers data between the chip and external devices. A protective ceramic package, plastic substrate, or encapsulant resin can also be bonded to the chip. Die attach materials including polymers and eutectic alloys are used to attach the chip to packages or substrates.

Supplier countries

- · China (mainland)
- Germany
- Japan
- · South Korea
- Taiwan
- · United Kingdom
- United States

Variants

- · Bond wires
- Ceramic packages
- · Die attach materials
- Encapsulation resins
- · Lead frames
- Substrates

Supplier countries (Variants)

- China (mainland)
- Germany
- Japan
- Singapore
- · South Korea
- Taiwan
- United States

Notable supplier companies (Variants)

- AKM China (mainland)
- · Alent United Kingdom
- · Amkor United States
- ASM Pacific China (mainland)
- BASF Germany
- Darbond China (mainland)
- Doublink China (mainland)
- · Henkel Germany
- · Heraeus Germany

- HHCK China (mainland)
- Hitachi Japan
- Hysol Huawei China (mainland)
- Ibiden Japan
- Kangqiang China (mainland)
- Kyocera Japan
- · LG South Korea
- Mitsui High-Tec Japan
- NanYa Taiwan
- NGK Japan
- Ningbo Hualong China (mainland)
- Nippon Micro Japan
- QP Technologies United States
- Samsung South Korea
- SH Material Japan
- Shennan Circuits China (mainland)
- Shinko Japan
- Sinopaco China (mainland)
- Sumitomo Japan
- Tanaka Japan
- Tanaka Denshi Japan
- Toray Japan
- Trinity Tech China (mainland)
- YesDo China (mainland)
- Yixing China (mainland)
- Yongzhi China (mainland)
- Zhongwei China (mainland)
- Zhuhai Yueya China (mainland)