

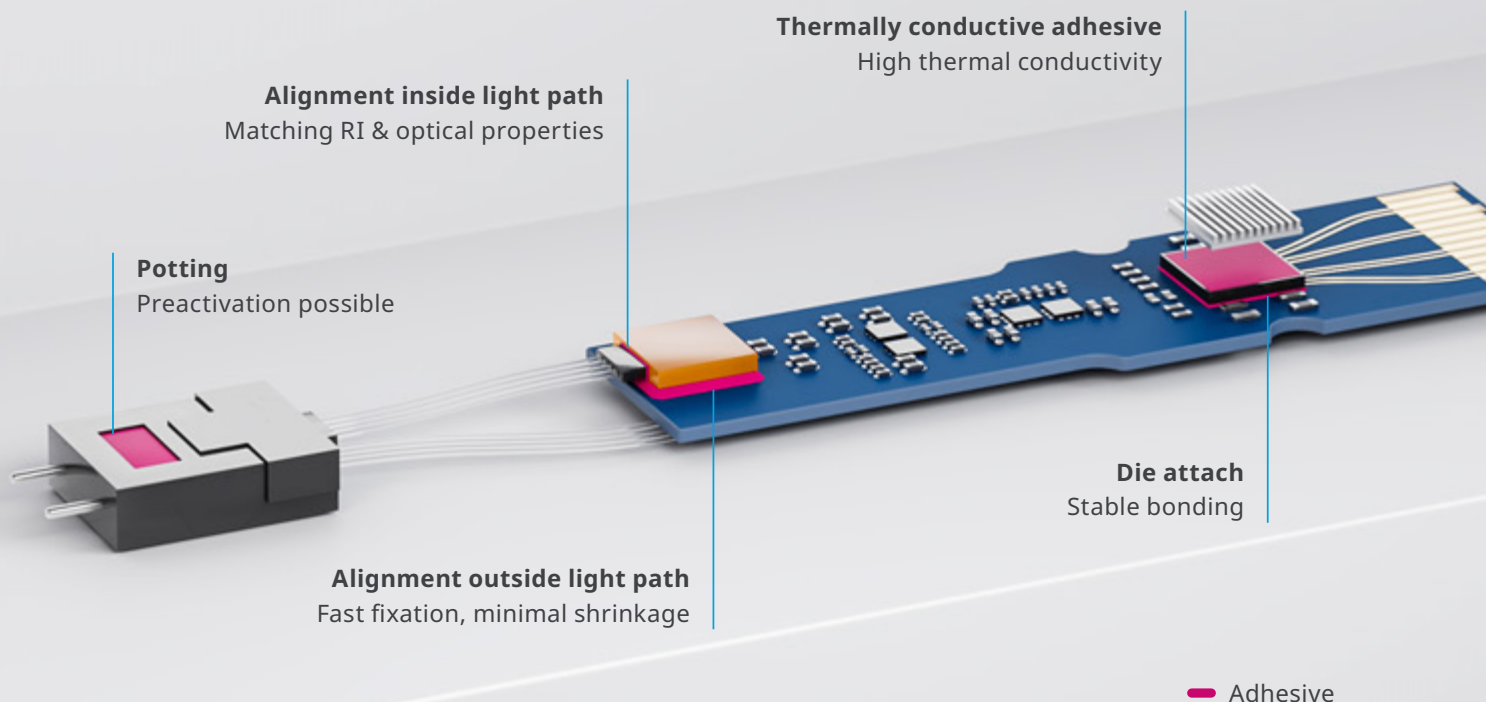
Optical transceivers

High-Performance Adhesives

for upscaling data transmission rates.

For optical communication systems, such as Optical Transceivers and Co-Packaged Optics (CPO), DELO adhesives enable **precise alignment** of optical components and provide minimal shrinkage. DELO adhesives maintain **high thermal and mechanical stability** even after rigorous testing following Telcordia and JEDEC standards.

DELO products combine **fast curing and high reliability** to enhance production efficiency. A dedicated product family even adds **transparency** to its properties, ensuring optimal light transmission.



The following tables show which adhesive properties to look out for in which bonding task.

Product features

Alignment outside the light path	Alignment inside the light path	Die attach
Alignment of optical elements such as FAUs, MLAs, lenses etc.	Bonding of fibers to lenses inside the light path	Bonding a die to a PCB
› No lens shift in x- / y-axis › Minimized and predictable shrinkage › Low outgassing	› UV-curable › High transmission for relevant wavelengths › Reliable and adjusted optical properties (e.g. RI)	› Stable bond line thickness › Reliable bond strength › Thermal conductivity (optional)

Structural bonding / sealing	Potting
Structural bonding / sealing of various components	Potting for mechanical support
› Light-curing and light + heat-curing options available › Low outgassing › Reliable bond strength	› Adjusted viscosity › Curing in shadowed areas › Low CTE

Specific product information

can be found in our material selection guide, which is available upon request.



Any questions?
photonics@delo.de

DELO Industrial Adhesives

**China | Czechia | France | Germany HQ | Italy | Japan
Korea | Malaysia | Singapore | Thailand | USA**

The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behavior of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this. It is the customer's responsibility to test the suitability of a product for the intended purpose by considering all specific requirements and by applying standards the customer deems suitable (e.g. DIN 2304-1).

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