

Maximum reliability for various bonding applications

Versatile and precise, these adhesives are the ideal choice for several sub-assemblies within PIC, such as **various alignment and coupling methods** both within and outside the light path.

- Adhesive

With extensive expertise in optical coupling applications as well as active alignment, DELO has developed tailored bonding solutions for optical communications. The following tables provide an overview of the key adhesive properties relevant in each bonding application.

Product features

Strain relief	V-groove bonding and lid attach	Edge coupling / Vertical coupling with microlens arrays
Mechanical support of fibers or fiber arrays	Bonding of fibers into V-grooves and passive fiber to PIC alignment	Minimizing coupling loss through highly precise alignment
› Tension-equalizing (flexibility) › Reliable bond strength › Low outgassing	› Optimized flow and wetting behavior › Withstands process related heat exposure without delamination › Reflow and humidity stable	› UV-curing › High transmission for relevant wavelengths › Reflow compatible

PIC / optical element attach

Bonding of PIC and optical element (OE) on substrate or submount

- › Flexible adhesives for substrates with CTE mismatch and rigid adhesives available
- › Fast fixation with active alignment possible
- › Optional dual-curing

Specific product information

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



Any questions?
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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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