DELO® has developed low-temperature-curing adhesives with optional light fixation for temperature-sensitive components. These products achieve full strength when cured at just +140 °F (+60 °C). Heat-curing adhesives are used for many applications requiring high strength and permanent chemical and environmental resistance. To achieve these properties, most adhesives must be cured at temperatures between +212 °F and +302 °F (+100 °C and +150 °C) — but not DELO®’s adhesives.

**Application areas**

Low-tension bonding and casting of temperature-sensitive materials in the following sectors and many more:
- Compact camera modules (CCM)
- Electronic assembly
- Mobile assembly
- Optical packaging (including infrared LEDs, image sensors)
- Wearables

**Customer’s benefits**

- Used in applications requiring high precision: Extremely low warpage due to low heat input
- Low thermal stress enables the use of cost-efficient substrates
- High efficiency due to low energy consumption during heat curing
- High positioning accuracy by light fixation

**Product properties**

- One-component, modified epoxy resins, solvent-free
- Optional pre-fixation (from an irradiation time of 0.5 s)
  - Low curing temperature: +140 °F (+60 °C)
- Dispensing of very fine structures with standard dispensing needles (for example, 200 μm dia.)
- Excellent adhesion to many plastics (such as ABS, LCP, PA, PBT, PMMA, PPS), metals and FR4
- High strength and permanent environmental resistance
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). Type, physical and chemical properties of the materials to be processed with the product, as well as all actual influences occurring during transport, storage, processing and use, may cause deviations in the behavior of the product compared to its behavior under laboratory conditions. All data provided are typical average values or uniquely determined parameters measured under laboratory conditions. The data and information provided are therefore no guarantee for specific product properties or the suitability of the product for a specific purpose. Nothing contained herein shall be construed to indicate the non-existence of any relevant patents or to constitute a permission, encouragement or recommendation to practice any development covered by any patents, without permission of the owner of this patent. All products provided by DELO® are subject to DELO®’s General Terms of Business. Verbal ancillary agreements are deemed not to exist.

In addition, various modifications of these products are available. These have, for example, a different flexibility / strength ratio or cure even faster. Please feel free to contact our Product Management for further details and inquiries.