

EPOXONIC® 195



**Dual-cure adhesive for
Microelectronics and
Optoelectronics/Optics**

EPOXONIC® 195 is a solvent-free, UV and/or thermal curing, 1-part-adhesive based on epoxy resin.

Main characteristics:

Dual-cure
Low viscosity
Impact resistance
Transparency

Application:

EPOXONIC® 195 is especially suited for quick fixation and bonding of devices and joining of various substrates like metals, plastics and glass.

Properties:

Specific values measured by standard test specimen at 23 °C, cured 1 h / 150 °C.

Operating temperature ¹⁾	-40 °C to +150 °C	
Colour	Colourless to yellowish	
Shore hardness	85 Shore D	DIN EN ISO 868
Density	1.2 g/cm ³	DIN EN ISO 1183-1
Glass transition temperature	140 – 150 °C	DIN EN ISO 11357-2
Coefficient of linear thermal expansion CTE	65 – 75 x 10 ⁻⁶ /K (50 – 100 °C)	ISO 11359-2
Refractive index	1.5	EPOXONIC PV 7
Shear Strength Aluminium	40 MPa	
FR4	40 MPa	
Quarz glass	35 MPa	
PC	25 MPa	
PET	10 MPa	
PBT GF 20	12 MPa	
PA 66 GF 30	11 MPa	

1) Depending on the application, other temperature limits may be reasonable

Processing:

Viscosity cone/plate viscometer 25 °C	500 – 1,000 mPas
Method of application	e.g. dispenser
Cure schedule UV cure Heat Cure	e.g. 60 mW/cm ² / 30 sec (UVA-light, $\lambda \approx 300 - 400$ nm) e.g. 0.5 h / 150 °C (shaded sections) Optimum cure schedules have to be determined by the specific application.

Storage:

The shelf life of EPOXONIC® 195 is, in the absence of light, 12 months at 2 – 8 °C when stored in tightly closed, original containers.

Health and Safety:

Recommended industrial hygiene procedures should always be followed when handling this product. Please refer to the corresponding Material Safety Data Sheet for details.

Packaging:

EPOXONIC® 195 is delivered in 5 ml UV tight cartridges containing 6 g material. Other packaging options are available upon request.

Quality Assurance:

If required EPOXONIC® 195 will be supplied with a Certificate of Analysis.

Disclaimer:

All information herein is based on the present state of knowledge and believed to be reliable. Any suggestions or recommendations are made without liability on our part since we shall have no control over the use of our product. Buyers and users should make their own assessment of this product under their own conditions and for their own requirements.