

# EPOXONIC® EX 2802

**Highly flexible UV-adhesive  
for Microelectronics  
and Optoelectronics/Optics**

EPOXONIC® EX 2802 is a solvent-free, flexibilised 1-Part adhesive based on epoxy resin.

## Main characteristics:

UV curing
Flexibility
Low viscosity
Transparency

## Application:

EPOXONIC® EX 2802 is especially suited for low stress bonding of substrates with different thermal expansion. EPOXONIC® EX 2802 features the possibility of quick fixation.

## Properties:

Specific values measured by standard test specimen at 23 °C, cured 60 sec / 60 mW/cm<sup>2</sup> (UVA-light,  $\lambda \approx 300 - 400$  nm; bond line thickness < 200  $\mu$ m).

Operating temperature	-30 °C to +100 °C; depending on the application, other limits may be reasonable	
Colour	colourless to slightly yellowish	
Shore hardness **	approx. 20 Shore A	DIN EN ISO 868
Density	1.1 g/cm <sup>3</sup>	DIN EN ISO 1183-1
Glass transition temperature (DSC)	-35 to -25 °C	DIN EN ISO 11357-2
Linear Shrinkage	1.2 %	
Shear strength	1.3 MPa	EPOXONIC PV 29
Tensile strength*	0.2 MPa	
E-modulus*	0.4 MPa	
Elongation at break*	37.0 %	

\* specimen: foils 2 x 10 x 50 mm

\*\* measured on layered foils

## Processing:

Viscosity cone/plate viscometer 25 °C	400 – 700 mPas
Method of application	e.g. dispenser
Cure schedule	e.g. 60 s / 60 mW/cm <sup>2</sup> (UVA-light, $\lambda \approx 300 - 400$ nm; bond line thickness < 200 $\mu$ m) Increased temperatures accelerate cure speed dramatically. Optimum cure schedules have to be determined by the specific application.

## Storage:

The shelf life of EPOXONIC® EX 2802 is 6 months at 2 – 8 °C when stored in tightly closed, original containers in the absence of light.

## 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® EX 2802 is delivered in UV tight cartridges.  
Other packaging options are available upon request.

## Quality Assurance:

If required EPOXONIC® EX 2802 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.