



Data Sheet

Version 1/2011

# Polytec EP 601

Polytec EP 601 is a two component, low viscosity, optically clear adhesive. The material is certified to USP Class VI Biocompatibility Standards.

## Typical Properties

Number of Components	2
Mix Ratio By Weight	
Part ,A' ( resin )	100
Part ,B' ( hardener )	35
Pot Life at room temperature	4 Hours
Shelf Life at room temperature	12 Months
Viscosity (84 RPM @ 23°C)	460 mPa s
Consistency	Flowable liquid
Specific Gravity Part ,A' ( resin )	1,17 g/cm <sup>3</sup>
Specific Gravity Part ,B' ( hardener )	0,95 g/cm <sup>3</sup>
Specific Gravity (mixture)	1,15 g/cm <sup>3</sup>
Color	Transparent , clear

Polytec EP 601 is a transparent, two component, optically clear epoxy, designed for applications in optics, fiber optics, optoelectronics, medical and semiconductor technology. It has an excellent adhesion to glass, PMMA, quartz, silicon, ceramic, metals, FR 4, wood and most plastics. It complies to USP Class VI Biocompatibility Standards.

### Features:

- 100% solid
- Transparent
- USP Class VI
- Low Viscosity
- Can be cured at room temperature

### Minimum Bond Line Cure Schedule

23°C	16 Hours
70°C	1 Hour

### Processing:

- Dispensing
- Potting
- Jet-Dispensing

### Thermal Properties

Glass Transition Temperature (Tg)	≥ 65°C
Continuous Operating Temperature	-55°C / 125°C

### Available Packs Sizes:

- See price list
- Customized Packaging
- Also available as pre-mixed- frozen version

### Mechanical Properties

Shore- Hardness	D80
Die Shear Strength	80 N/mm <sup>2</sup>

### Polytec EP 601-frozen

### Optical Properties

Index of Refraction	n=1,5338
>98% Transmission (bondline thickness 1,4 mm)	380 – 980 nm

### For more information, see:

- MSDS of Polytec EP 601
- Application notes
- Catalogue

## Please note:

The above listed information are typical data based on tests and are believed to be accurate. Polytec PT makes no warranties (expressed or implied) as to their accuracy. The above listed data do not constitute specifications. The processing (in particular the cure conditions) of the material, the process control and the variety of different applications at various customers are not under Polytec PT's control. Therefore Polytec PT will not be liable for concrete results in any specific application or in any connection with the use of this product. In particular the cure conditions do have a major effect on the properties of the cured material. Therefore it is highly recommended to keep the cure schedule – once established - under tight control. With the release of this data sheet all former data sheets will be null and void.

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