

## Polytec UV 1306

### Description

- one-component hybrid
- solvent-free
- UV curing

### Product properties

- highly transparent
- very flexible
- low viscous
- impact resistant
- moisture resistant
- temperature shock resistant

### Special features

- no stringing

### Applications

- structural glass bonding
- bonding, sealing, potting

### Processing information

After application, the joining of the parts should be done quickly, as some products already cure with daylight. Any contact of the adhesive with base metals, contamination with amines or reducing agents (e.g. vitamin C) should be strictly avoided, as this may lead to undesired premature curing of the product (e.g. in the metering unit).

### Surface preparation

The surfaces to be bonded should be free of dust, oil, grease or other contaminants in order to obtain an optimum and reproducible bond. For lightly soiled parts, wiping with isopropanol or ethanol is sufficient. Substrates that have a low surface energy (e.g. polyethylene, polypropylene, Teflon) must be physically pretreated (e.g. with atmospheric plasma or corona) to achieve sufficient adhesion.

## Polytec UV 1306

UV-light curing hybrid adhesive

## Technical Information

## Polytec UV 1306

Properties in the uncured state	Method	Unit	Technical data
Chemical base	-	-	hybrid
Color	-	-	colorless, transparent
Number of components	-	-	1
Shelf life at max. 25°C	-	Month	6
Consistency	-	-	low viscous
Density	-	g/cm <sup>3</sup>	app. 1.05
Viscosity rheometer, cone/plate	400 s <sup>-1</sup> at 23°C	mPa·s	app. 160

Properties in the cured state	Method	Unit	Technical data
Shore-hardness	Shore D curing at 365 nm*	-	62
Service temperature	-	°C	-40 / +120
Max. temperature short term	-	°C	+250
Compression shear strength Glass/glass Glass/glass (immersion H <sub>2</sub> O, 40°C. 24 hrs.) Glass/aluminium	curing at 365 nm*	N/mm <sup>2</sup>	19 18 12
Tensile strength	curing at 365 nm*	N/mm <sup>2</sup>	11
Elongation at break	curing at 365 nm*	%	250
Water absorption 24 hrs. 23°C 85°C	gravimetric, curing at 365 nm*	%	0.3 0.6
Outgassing 24 hrs. at 150°C	gravimetric, curing at 365 nm*	%	2.2

\*For some products, the through-curing is limited in 3 mm or by substrates, therefore the curing time for the determination of the measured value is adjusted individually.

## Polytec UV 1306

Curing*	Method	Unit	Technical data
Feasible UV-wavelength range	-	nm	365 - 405
Optimum wavelength range for curing	-	nm	365
Curing dose at 365 nm in 1 mm layer	-	mJ/cm <sup>2</sup>	3,000
Curing time at 1,500 mW/cm <sup>2</sup> @365nm in 1 mm layer	-	sec	2

\*High-power LED lamps are recommended for curing in order to introduce the optimum dose and wavelength with the highest possible energy yield and the lowest possible temperature load on the substrate.

### Work and health protection

See safety data sheet.

### For your attention:

The above data can only be general information. The properties and performance characteristics listed are typical values and do not form part of the product specification. Due to the processing and application conditions beyond our control and the large number of different materials, we recommend that you first carry out your own tests. Therefore, no liability for concrete application results can be derived from the information and notes in this data sheet. With the publication of this edition, all previous technical data sheets become invalid.

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