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Technical Data Sheet Photobond 4442


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"The Power of Adhesive Information"™

4442

Base:

- Modified acrylate, one-part, solvent-free

Curing:

- By UV-light in the wavelength range from 400 to 550 nm

Curing parameter:

- Depending on thickness and absorption of material involved, thickness of adhesive layer, type of lamp, and distance of lamp from adhesive layer

Use:

- Elastic coating, sealant, and adhesive for foils and membranes
- Has been tested for biocompatibility and fulfills the requirements according to USP XXXIII, Class VI

Application:

- Supplied ready to use and best applied from the original container or with Cyberbond recommended dispensing units
- Surfaces to be bonded should be dry, free of dust, grease, and other contaminants

Technical data

Color Cured in 0.1 mm layer thickness	clear, colorless
Density [g/cm ³] At room temperature	.98
Viscosity [mPas] At 23°C Brookfield sp./rot.	650 3/100
Tensile strength [MPa] DIN 53504	3
Elongation at tear [%] DIN 53504	300

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Shear strength

Joint part material glass/glass [MPa] 4

Joint part material glass/Al [MPa] 4

Joint part material PC/PC [MPa] 6

Joint part material PMMA/PMMA [MPa] 2
Intensity: 50mW/cm²
Illumination Time: 60[s]

Minimum curing time [s] 30
At an intensity of approx. 70 mW/cm²

Surface after curing adherent

Shore Hardness A 30
DIN 53505

Recommended temperature range for use
Permanent use [°C] -30 to +120

Instant use [°C] +150

Refraction index 1.50

Coefficient of elongation [1/K] 100xE⁻⁶
Between 23°C and 150°C

Water absorption [%] 0.6
DIN 53495, 24h at RT

Creep resistance CTI > 600 M
VDE 0303, Part 1, IEC 112

Storage life 6 months
After delivery in unopened original container
At room temperature

Recommendations for maintenance of industrial health and safety standards:
For safe handling information on this product, consult the Material Safety Data Sheet.

NOTE

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