



TECHNICAL INFORMATION

BEST-PL 5010

BEST-PL 5010 is a one-component, solvent-free, adhesive based on a modified acrylic resin.

BEST-PL 5010 cures by exposure to UV light with a wave length of 315 – 450 nm. At least one of the adherends has to be permeable to UVA-light. After sufficient exposure the product cures completely. Curing parameter depend on material thickness and absorption, adhesive layer thickness and absorption, type of lamp and the distance between light source and the adhesive film.

BEST-PL 5010 is preferably used for bonding of glass/glass, glass/synthetic materials and glass/metal. The curing mechanism allows an adjustment of parts shortly after application but before exposure. The product is approved according to **USP class VI** and suitable for use in medical technology.

BEST-PL 5010 is ready to use and can be applied directly from the original container or with suitable dosing units. Bonding surfaces should be dry and free of dust, grease and other contaminants. Apply product on bonding surfaces, assemble parts and expose to UVA-light of appropriate wave length.

PROPERTIES (liquid product)

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|---|---|
| Chemical type | Modified acrylate |
| Curing system | UVA light |
| Appearance | Clear / colourless |
| Viscosity (Brookfield) | Approx. 1000 mPas |
| Density (DIN 51757) | approx. 0,9 x 10 ³ kg/m ³ |
| Shelf life (Storage in unopened original container at 10°C up to 23°C) | At least 6 months |

**STRENGTH VALUES (cured product)**

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|---------------------------------|----------------------|
| Tensile strength (DIN 53504) | 20 N/mm ² |
| Elongation at break (DIN 53504) | 100% |
| Shear strength glass/glass | 30 Nmm ² |
| Shear strength glass/aluminum | 15 Nmm ² |
| Surface after cure | slightly sticky |
| Shore hardness A (DIN 53505) | 90 |
| Shore hardness B (DIN 53505) | 50 |
| Temperature range | -60°C – +150°C |

HEALTH AND SAFETY STANDARDS

Irritating to eyes, respiratory system and skin. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. After contact with skin wash off immediately with plenty of water and soap. For further information please see corresponding material safety data sheets.

General

The data and information above correspond to the current know-how of BEST-Klebstoffe GmbH & Co.KG. Our information and data have been developed from laboratory tests and extensive practical experience. It is the user's responsibility to perform receiving inspections and to determine suitability for the user's purpose of any production methods. We disclaim all warranties expressed or implied, that any product will have specific properties for a particular purpose. BEST-Klebstoffe GmbH & Co. KG reserves the right to change the contents of this document as necessary.

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