

## TECHNICAL INFORMATION

## BEST-PL 5373

**BEST-PL 5373** is a one-component, solvent-free, low viscous and crystal clear curing adhesive based on a modified acrylic resin with excellent adhesion properties on several synthetic materials, especially for bonding of PMMA (Plexiglas).

**BEST-PL 5373** cures by UVA- and visible light with a wave length of 320 – 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 5373** is preferably used for crystal clear and strong bonding of Plexiglas. The product also features very good adhesion on PC, PA, rigid PVC and other thermosetting plastics. It is most suitable for smaller applications and end-to-end connections (displays, casings). When bonding larger areas shrinkage might cause the adhesive layer to tear and diminish the optical quality of the product. The flexibility of the product makes tension-equalising bonding of materials with different thermal expansion coefficients possible.

BEST-PL 5373 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. For cleaning we recommend our BEST-Clean 2000. Apply product on one of the bonding surfaces, assemble parts and expose. The curing mechanism allows an adjustment of parts shortly after application but before exposure.

**PROPERTIES (liquid product)**

Chemical type	Modified acrylate
Curing system	UVA- and visible light
Appearance	Colourless to slightly yellowish
Viscosity (Brookfield)	Approx. 400 mPas
Density (DIN 51757)	1,1 x 10 <sup>3</sup> kg/m <sup>3</sup>
Shelf life (Storage in unopened original container at 10°C up to 23°C)	At least 6 months



**STRENGTH VALUES (cured product)**

Tensile strength (DIN 53504)	25 N/mm <sup>2</sup>
Elongation at break (DIN 53504)	60%
Shear strength glass/glass	18 Nmm <sup>2</sup>
Shear strength PMMA/PMMA	25 Nmm <sup>2</sup>
Surface after cure	sticky, not completely dry
Shore hardness A (DIN 53505)	30
Shore hardness B (DIN 53505)	10
Temperature range	-60°C – +120°C

**HEALTH AND SAFETY STANDARDS**

This product is classified as harmful to health. 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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