TECHNICAL INFORMATION

BEST-PL 5023

BEST-PL 5023 is a one-component, solvent-free, adhesive based on a modified acrylic resin.

BEST-PL 5023 cures by exposure to UVA light with a wave length of 320 – 400 nm. At least one or the bonding components 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.

Due to its medium viscosity and its good adhesion on glass, metals and synthetic materials **BEST-PL 5023** is preferably used for bonding of those materials. Apply product on bonding surfaces, assemble parts and expose to UVA-light of appropriate wave length. The curing mechanism allows an adjustment of parts shortly after application but before exposure. The flexibility of the product makes tension-equalising bonding of materials with different thermal expansion coefficients possible.

BEST-PL 5023 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.

PROPERTIES (liquid product)

Chemical type	Modified acrylate
Curing system	UVA light
Appearance	Clear / colourless
Viscosity (Brookfield 25°C)	Approx. 3.500 mPas
Density (DIN EN 542)	approx. 0,9 x 10^3kg/m^3
Shelf life in unopened original (Storage temperature at 10°C to 23°C)	At least 6 months

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STRENGTH VALUES (cured product)

Tensile strength	15 N/mm²
Elongation at break	300%
Tensile shear strength (DIN EN 1465) glass/glass	25 Nmm²
Tensile shear strength (DIN EN 1465) glass/aluminum	18 Nmm²
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

Hazard Statements: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. 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 were 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.

Revision: 150908
Revision date: 08.09.2015

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