

TECHNICAL INFORMATION

BEST-PL 5141

BEST-PL 5141 is a one-component, solvent-free, adhesive based on a modified acrylic resin.

BEST-PL 5141 cures by exposure to UVA light with a wave length of 320 – 400 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.

Due to its low viscosity, its good optical features and its good adhesion on glass, metals and synthetic materials **BEST-PL 5141** is preferably used for bubble-free bonding of those materials. The product also features excellent resistance against various chemicals. Apply product on bonding surfaces, assemble parts and expose to UVA-light of appropriate wave length. BEST-PL 5141 is also suitable for subsequent application. Due to the good capillary action the adhesive seeps into the bonding gap. The curing mechanism allows an adjustment of parts shortly after application but before exposure. The product is temperature resistant.

BEST-PL 5141 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
Viscosity (Brookfield 25°C)	Approx. 100 mPas
Density (DIN EN 542)	approx. 1,1 x 10 ³ kg/m ³
Shelf life in unopened original (Storage temperature at 10°C to 23°C)	At least 6 months

**STRENGTH VALUES (cured product)**

Tensile strength	42 N/mm ²
Elongation at break	7 %
Tensile shear strength (DIN EN 1465) glass/glass	34 Nmm ²
Tensile shear strength (DIN EN 1465) glass/aluminum	25 Nmm ²
Surface after cure	slightly sticky
Shore hardness A (DIN 53505)	N/A
Shore hardness B (DIN 53505)	N/A
Temperature range	-60°C – +120°C

HEALTH AND SAFETY STANDARDS

Hazard Statements: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects. 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.

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