

TECHNICAL INFORMATION

BEST-KL 6008

BEST-KL 6008 is a one-component, solvent free and medium viscous UVA-light curing adhesive based on a modified epoxy resin.

BEST-KL 6008 is especially designed for bonding of synthetic materials, elastomers and metals. The product cures by exposure to UV-light with a wave length of 280-320nm. At least one of the bonding parts has to be permeable to UVA-light. After cure it is temperature and chemical resistant. The product features a dry surface after cure and is therefore predestined for casting of electronic components. It is also suitable for sealing of soldering contacts in plug connectors and relays.

BEST-KL 6008 combines high strength with good temperature and chemical resistance. Its medium viscosity allows filling of gaps up to 1 mm especially when subsequently exposing the excess adhesive. The product features slight "dark cure" properties. The adhesive will further cure in the dark but to a lesser extent.

PROPERTIES (liquid product)

Chemical type	Epoxy resin
Curing system	UVA light
Appearance	Colourless to yellowish
Viscosity (Brookfield)	2.000 mPa·s/thix
Density (DIN EN 542)	1,1 x 10³kg/m³
Shelf life in unopened original (Storage temperature 10°C up to 23°C)	6 months

Curing time @ RT (23°C)

Fixture time	120 seconds
Functional strength	120 seconds
Final strength	24 hours

STRENGTH VALUES (cured product)

Tensile strength	32N/mm²
Elongation at break	20 %
Tensile Shear strength (DIN EN 1465) glass/aluminum	20 Nmm²
Tensile Shear strength (DIN EN 1465) PC/PC	29 N/mm²
Surface after cure	dry
Appearance after cure	Colourless to whitish
Temperature range	-55°C – +150°C

CHEMICAL AND ENVIRONMENTAL RESISTANCE**(DIN 53287 – Test in accordance with DIN EN 15865))**

In % of the initial strength after 1000h chemical absorption

Water/Glycol at 87°C	90 %
Motor oil (MIL-L-46 152) at 125°C	80%
Unleaded Gasoline at 23°C	80%
Brake fluid at 23°C	90%
1,1,1 trichlorethane at 23°C	90%
Ethanol at 23°C	90%
Acetone at 23°C	85%

For more information on resistance against other chemicals please contact BEST-Klebstoffe.

HEALTH AND SAFETY STANDARDS:

Hazard Statements: May cause an allergic skin reaction. 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 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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