



TECHNICAL INFORMATION

BEST-KL 6009

BEST-KL 6009 is a one-component, solvent free and high viscous UVA-light curing adhesive based on a modified epoxy resin.

BEST-KL 6009 features good adhesion on metals and synthetic materials. It cures by exposure to UV-light with a wave length of 315-400 nm. At least one of the adherends has to be permeable to UVA-light. After cure the product is temperature and chemical resistant. The product is especially suitable for the casting of electronic components, e.g. switches, relays, chips.

BEST-KL 6009 combines high strength with good temperature and chemical resistance. Its high viscosity allows filling of gaps up to 2 mm and a good distribution on the adherends, especially with subsequent exposure of 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 whitish
Viscosity (Brookfield)	Approx. 6,000 mPa·s
Density (DIN 51757)	approx. 1,1 x 10 ³ kg/m ³
Shelf life (Storage in unopened original container at 10°C up to 23°C)	6 months
<u>Curing time @ RT (23°C)</u>	
Fixture time	120 seconds
Functional strength	120 seconds
Final strength	24 hours



STRENGTH VALUES (cured product)

Tensile strength (DIN 53504)	32N/mm ²
Elongation at break (DIN 53504)	20 %
Shear strength glass/aluminum	20 Nmm ²
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 54454)

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:

Warning! 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.

Revision: 130529
Revision Date: 29.05.2013