

## **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 280-320 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)**

<b>Chemical type</b>	<b>Epoxy resin</b>
<b>Curing system</b>	<b>UVA light</b>
<b>Appearance</b>	<b>Colourless to whitish</b>
<b>Viscosity (Brookfield)</b>	<b>Approx. 4,000 mPa·s</b>
<b>Density (DIN EN 542)</b>	<b>approx. 1,1 x 10<sup>3</sup> kg/m<sup>3</sup></b>
<b>Shelf life in unopened original (Storage temperature at 10°C up to 23°C)</b>	<b>6 months</b>

#### **CURING TIME @ RT (23°C)**

<b>Fixture time</b>	<b>120 seconds</b>
<b>Functional strength</b>	<b>120 seconds</b>
<b>Final strength</b>	<b>24 hours</b>

**STRENGTH VALUES (cured product)**

<b>Tensile strength</b>	<b>32N/mm<sup>2</sup></b>
<b>Elongation at break</b>	<b>20 %</b>
<b>Tensile shear strength (DIN EN 1465) glass/aluminum</b>	<b>20 Nmm<sup>2</sup></b>
<b>Surface after cure</b>	<b>dry</b>
<b>Appearance after cure</b>	<b>Colourless to whitish</b>
<b>Temperature range</b>	<b>-55°C – +150°C</b>

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

In % of the initial strength after 1000h chemical absorption

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

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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