

TECHNICAL INFORMATION

BEST-KL 6059

BEST-KL 6059 is a one-component, solvent free and low viscous UVA-light curing adhesive based on a modified epoxy resin.

BEST-KL 6059 is especially suitable for the bonding of synthetic materials, glass, metals and elastomers. It cures by exposure to UVA-light with a wave length of 280 - 320 nm. At least one of the adherends has to be permeable to UVA-light. It is temperature- and chemical resistant after cure. The product features a dry surface after cure and is therefore predestined for the casting of components in the field of electronics. It is also used for the sealing of soldering contacts in plug-in-connectors and relais.

BEST-KL 6059 combines high strength with good temperature and chemical resistance. Its viscosity allows a good distribution on the adherends. The product features slight "dark cure" properties. It 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. 300 mPa·s
Density (DIN EN 542)	approx. 1,1 x 10³kg/m³
Shelf life in unopened original (Storage temperature at 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	34 N/mm²
Elongation at break	15 %
Tensile shear strength (DIN EN 1465) glass/aluminum	20 Nmm²
Tensile shear strength (DIN 53283) PC / PC	29 Nmm²
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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