

**TECHNICAL INFORMATION****BEST-MK 4231**

**BEST-MK 4231** is a one component, solvent free, anaerobic curing adhesive based on Dimethacrylate ester. The viscosity is medium.

**BEST-MK 4231** is especially suitable for the bonding of cylindrical fitting parts, particularly where disassembly is required for service operations. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening of screw connections and leakage from shock and vibration. Typical applications include retention of bearings onto shafts and into housings.

**BEST-MK 4231** combines medium strength with good temperature and chemical resistance. Disassembly is possible with special tools without causing damage to the thread. The medium viscosity allows a good distribution and capillary action on the adherents.

**Product characteristics**

<b>Chemical Type</b>	<b>Dimethacrylate ester</b>
<b>Curing system</b>	<b>anaerobic</b>
<b>Colour</b>	<b>yellow</b>
<b>Strength</b>	<b>medium strength</b>
<b>Viscosity (Brookfield)</b>	<b>400 - 700 mPas</b>
<b>Density (DIN EN 524)</b>	<b>1,1 x 10<sup>3</sup>kg/m<sup>3</sup></b>
<b>Thread sizes up to</b>	<b>M20</b>
<b>Thread friction</b>	<b>0,17</b>
<b>Shelf life</b> (Storage in unopened original container at 8°C up to 21°C)	<b>1 year</b>
<b>Shelf life BULK</b> (Storage in unopened original container at 8°C up to 16°C)	<b>3 months</b>

**Curing time @ 23°C**

<b>Fixture time</b>	<b>5 - 20 min.</b>
<b>Functional strength</b>	<b>4 - 8 hrs.</b>
<b>Total curing time</b>	<b>24 hrs.</b>

**Strength of cured Material**

<b>Compression/shear strength (ISO 10123) @ 23°C</b>	<b>18 N/mm<sup>2</sup></b>
<b>Breakloose Moment (DIN EN 15865)</b>	<b>16 Nm</b>
<b>Breakaway Moment (DIN EN 15865)</b>	<b>&lt; MLB</b>
<b>Temperature range</b>	<b>-50°C up to +150°C</b>

**Chemical/Solvent Resistance (DIN 53287 - test in accordance to 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>100%</b>
<b>Unleaded Gasoline at 23°C</b>	<b>100%</b>
<b>Brake fluid at 23°C</b>	<b>100%</b>
<b>1,1,1 Trichlorethane at 23°C</b>	<b>100%</b>
<b>Ethanol at 23°C</b>	<b>100%</b>
<b>Acetone at 23°C</b>	<b>95%</b>

For resistance against other chemicals, please check the chemical resistance listing.

**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. They shall not release any customer from its duty to perform receiving inspections and to do test runs in view of any intended use, nor do they constitute a representation that any product will have specific properties or be suitable for any definite use. BEST-Klebstoffe GmbH & Co. KG reserves the right to change the contents of this document as necessary.

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