

## Insulation / Flame protection

### Resin 8615/30 (ex BA 92) + Hardener 8901 (ex 1001)

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- **2-components polyurethane casting resin**
  - **solvent-free system**
  - **hard curing degree**
  - **no halogenated flame-retardants**
  - **high electrically insulating**
  - **excellent adhesive properties**
  - **ideal for electronic components, e.g. sensors of all sorts, coils, PCBs or capacitors**
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#### Product specification:

Mixing ratio (weight):	Resin 8615	100 parts
	Hardener 8901	50 parts
Viscosity (22°C):	Resin: 8615	9'500 – 11'500 mPa·s
	Hardener: 8901	15 – 25 mPa·s
	Mixing viscosity	1'500 – 2'500 mPa·s
Density (22°C):	Resin: 8615	1.53 – 1.63 g/cm <sup>3</sup>
	Hardener: 8901	1.20 – 1.25 g/cm <sup>3</sup>
Colour:	Nature (beige)	
Pot life:	15 – 25 minutes	
Curing time (22°C):	12 – 24 hours	
Final hardness	10 – 14 days	

**Physical properties:**

Shore-Hardness:	D 30 – 43	ISO 868, DIN 53505
Thermal conductivity:	0.6 W/(m·K)	DIN EN ISO 22007
Glass transition temperature:	-23.8°C	TMA
Coefficient of expansion:	73.5 ppm/K 122.4 ppm/K	< T <sub>g</sub> , TMA > T <sub>g</sub> , TMA
Shrinkage after curing:	<1 %	
Water absorption:	0.3 % (30 days at 23°C)	
Insulation class:	B	IEC 60085
E-Modulus:	26.1 MPa	DIN EN ISO 527-2
Tensile strength:	7.77 MPa	
Elongation at break:	55.6 %	
Operating temperature:	-40°C up to +130°C	
Flammability classification:	HB	

**Electrical properties:**

Dielectric strength:	30 kV/mm	IEC 60243-1, VDE 0303, TI.2
Volume resistance:	10 <sup>14</sup> Ω·cm (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, TI.30
Surface resistance:	10 <sup>16</sup> Ω (23°C/ 50% r.F.)	
Dielectric constant (ε <sub>r</sub> ):		
at 50 Hz, 23 °C	5.7	IEC 60250,
at 1 KHz, 23 °C	5.1	VDE 0303, TI.4
at 1 MHz, 23 °C	4.9	
Dielectric dissipation factor:		IEC 60250,
(tan δ) at 50 Hz, 23 °C	0.09	VDE 0303, TI.4
Comparative Tracking Index:	CTI 600	IEC 60112, VDE 0303, TI.1

Shelf life:	6 months in sealed original containers when stored in dry conditions (15°C to 25°C).
Packaging:	Resin and hardener are offered in separate packaging units.
RoHS:	We hereby certify that all products are unexceptional RoHS conform according to the EU-directive 2011/65/EG (RoHS2) and the amendment of Directive 2015/863.

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