

## Insulation / Flame protection

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

- 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

#### Product specification:

Mixing ratio (weight):	Resin 8615/30N	100 parts
	Hardener 8901	50 parts
Viscosity (22°C): (at 100 rpm)	Resin: 8615/30N	1'100 – 1'400 mPa·s
	Hardener: 8901	160 – 240 mPa·s
	Mixing viscosity	600 – 800 mPa·s
Density (22°C):	Resin: 8615/30N	1.20 – 1.30 g/cm <sup>3</sup>
	Hardener: 8901	1.20 – 1.25 g/cm <sup>3</sup>
Colour:	Nature (beige)	
Pot life:	25 – 35 minutes	
Curing time (22°C):	16 – 30 hours	
Final hardness	10 – 14 days	

**Physical properties:**

Shore-Hardness:	D 80 – 85	ISO 868, DIN 53505
Thermal conductivity:	0.3 W/(m·K)	DIN EN ISO 22007
Glass transition temperature:	50.0 °C	TMA
Coefficient of expansion:	81.9 ppm/K 188.3 ppm/K	< T <sub>g</sub> , TMA > T <sub>g</sub> , TMA
Shrinkage after curing:	<1 %	
Water absorption:	0.2 % (30 days at 23°C)	
Operating temperature:	-40°C up to +130°C	
Flammability classification:	HB	

**Electrical properties:**

Dielectric strength:	25 kV/mm	IEC 60243-1, VDE 0303, TI.2
Volume resistance:	10 <sup>15</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	3.7	IEC 60250,
at 1 KHz, 23 °C	3.5	VDE 0303, TI.4
at 1 MHz, 23 °C	3.1	
Dielectric dissipation factor:		
(tan δ)		
at 50 Hz, 23 °C	0.05	IEC 60250,
at 50 Hz, 50 °C	0.03	VDE 0303, TI.4
at 50 Hz, 80 °C	0.03	
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.

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