

Transparency

Resin 8812/30T (ex ST 45) + 8930 (ex 3000)

- **2-components polyurethane casting resin**
- **Solvent-free system**
- **Crystal clear and UV-resistant**
- **Transmission values over 90 %**
- **Hard curing degree**
- **Excellent adhesive properties**
- **Ideal for LED applications**
- **TIP: good combination possibilities with Kisling's opaque and thermal conductive casting resins**

Product specification:

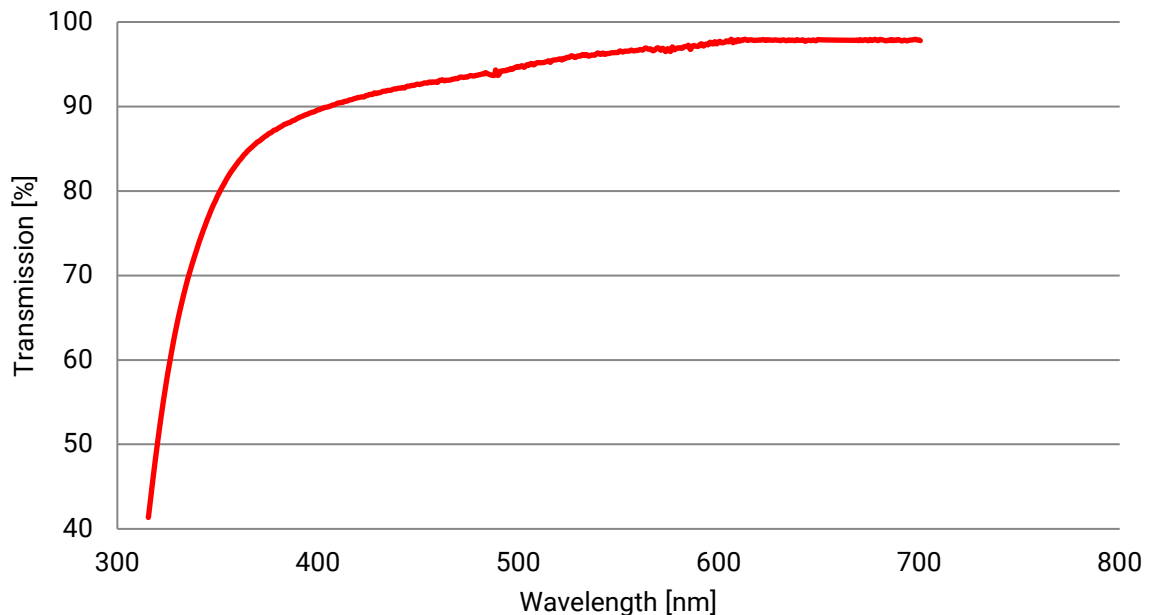
Mixing ratio (weight):	Resin 8812/30T	100 parts
	Hardener 8930	166 parts
Viscosity (22°C):	Resin 8812/30T	1'600 – 2'000 mPa·s
	Hardener 8930	450 – 750 mPa·s
	Mixing viscosity	850 – 1'250 mPa·s
Density (22°C):	Resin 8812/30T	1.03 – 1.08 g/cm ³
	Hardener 8930	1.10 – 1.15 g/cm ³
Colour:	Crystal clear	
Pot life:	30 – 45 minutes	
	The curing time depends on the thickness of the layer, the casting volume and the temperature.	
Curing time (22°C):	16 – 30 hours	
Final hardness	10 – 14 days	

Physical properties:

Shore-Hardness:	D 68 – 72	ISO 868, DIN 53505
Thermal conductivity:	0.2 W/(m·K)	DIN EN ISO 22007
Glass transition temperature:	32.2 °C	TMA
Coefficient of expansion:	95.1 ppm/K	< Tg, TMA
	188.8 ppm/K	> Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0.2 % (30 days at 23°C)	
Operating temperature:	-40°C up to +130°C (no effect on the physical properties)	
	-40°C up to + 90°C (no effect on the optical properties)	

Transmission values:

Transmission measured against air, layer thickness approx. 8 mm, Analytik Jena Specord S 100



Shelf life:	12 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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TDS_8812_30T+8930_e/OT/18.08.2025