

Transparency

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

- 2-components polyurethane casting resin
- CMR free
- 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:

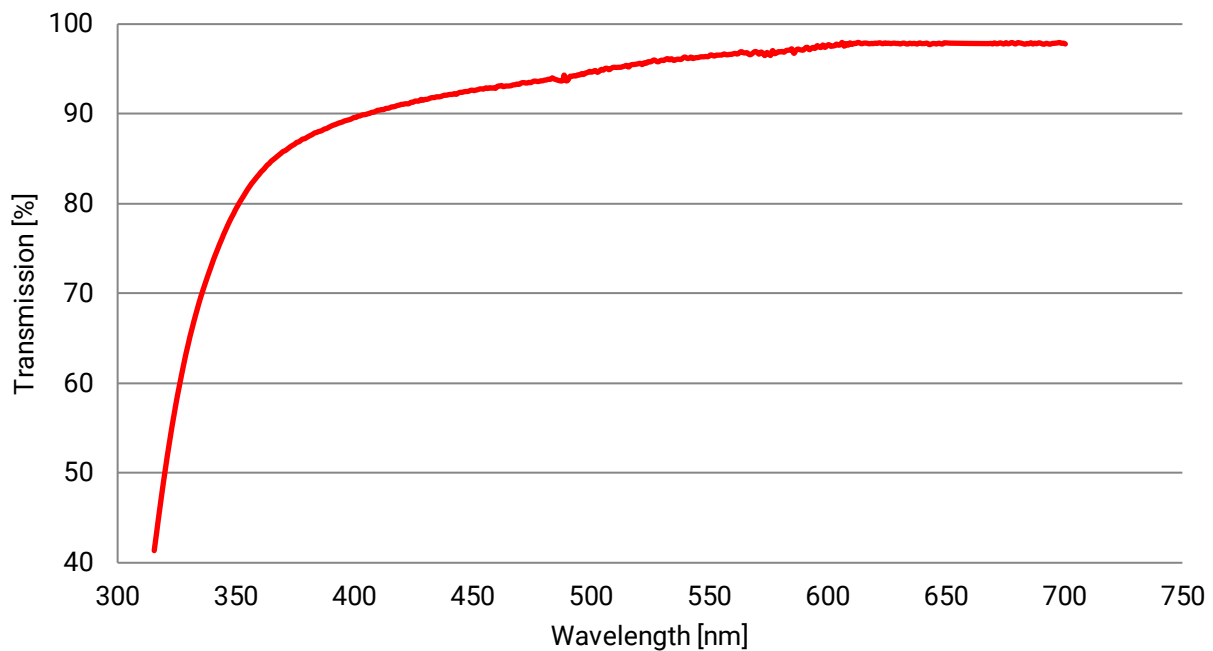
Mixing ratio (weight):	Resin 8812	100 parts
	Hardener 8930	166 parts
Viscosity (22°C):	Resin 8812	1'600 – 2'000 mPa·s
	Hardener 8930	450 – 750 mPa·s
	Mixing viscosity	850 – 1'250 mPa·s
Density (22°C):	Resin 8812	1.05 – 1.10 g/cm ³
	Hardener 8930	1.10 – 1.15 g/cm ³
Colour:	Crystal clear	
Pot life:	30 – 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 188.8 ppm/K	< Tg, TMA > Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0.2 % (30 days at 23°C)	
Insulation class:	B	IEC 60085
Operating temperature:	-40°C up to +130°C (no effect on the physical properties) -40°C up to + 90°C (no effect of the optical properties)	

Transmission values:

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



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.

TDS_8812_30+8930_e/PC/07.11.2022