BONDING + SEALING + ENCAPSULATION



Thermal Conductivity

Resin 8514/30N (ex FR 128) + Hardener 8930 (ex 3000)

- 2-components polyurethane casting resin
- CMR-free *
- solvent-free and electrically insulating
- very high thermal conductivity
- no metallic fillers
- excellent adhesive properties
- no halogenated flame-retardants
- ideal for heat-reduction of winding goods, electric motors, accumulators, and high-performance components
- TIP: Design variations of effective cooling elements, good combination with Kisling's LED-casting resins

 $^{\star}\,$ not subject to CMR labelling according to section 2 of the safety data sheet

Mixing ratio (weight):	Resin 8514/30N	100 parts	
	Hardener 8930	9 parts	
Viscosity (22°C): (At 10 rpm)	Resin 8514/30N	100'000 − 180'000 mPa·s	
	Hardener 8930	450 – 750 mPa·s	
	Mixing viscosity	60'000 − 70'000 mPa·s	
Viscosity (40°C):	Resin 8514/30N	60'000 – 80'000 mPa·s	
(At 10 rpm)	Mixing viscosity	10'000 − 25'000 mPa·s	
Dopaity (22°C):	Resin 8514/30N	2.40 - 2.50 g/cm ³	
Density (22°C):	Hardener 8930	1.10 – 1.15 g/cm³	
Colour:	Nature (cream)		
	20 – 40 minutes		
Pot life:	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		

Product specification:

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Physical properties:

Shore-Hardness:	D 40 – 50	ISO 868, DIN 53505
Thermal conductivity:	2.6 W/(m·K)	DIN EN ISO 22007
Glass transition temperature:	-22.9 °C	ТМА
Coefficient of expansion:	137.9 ppm/K	< Tg, TMA
	162.0 ppm/K	> Tg, TMA
Shrinkage after curing:	<1 %	
Water absorption:	0.4 % (30 days at 23°C)	
Operating temperature:	-40°C up to +130°C	
Flammability classification:	V-0 in 4.0 mm	

Electrical properties:

Dielectric strength:	31 kV/mm	IEC 60243-1, VDE 0303, TI.2
Volume resistance:	10 ¹⁵ Ω·cm (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, TI.30
Surface resistance:	10 ¹⁶ Ω (23°C/ 50% r.F.)	IEC 60243-1, VDE0303, TI.30
Dielectric constant (ϵ_r):		
at 50 Hz, 23 °C	5.8	IEC 60250,
at 1 KHz, 23 °C	4.2	VDE 0303, TI.4
at 1 MHz, 23 °C	4.6	
Dielectric dissipation factor:		
(tan δ)		IEC 60250,
at 50 Hz, 23 °C	0.09	VDE 0303, TI.4
Comparative Tracking Index:	CTI 600	IEC 60112, VDE 0303, TI.1

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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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TDS_8514_30N+8930_e/PC/16.08.2023