

WEVOPUR 1222

Solvent and fillerfree transparent two-component casting resin based on polyurethane. The resin is light stable and has good tear propagation strength. It provides a low tack and a good gloss. Is non-yellowing even under UV exposure. The two components are immediately compatible. The system does not contain mercury catalysts.

Temperature range of use: -40°C to +120°C.

The casting resin is used with WEVONAT 360.

Applications: Encapsulation of electrical components for low and medium voltage applications like diodes and coatings.

Product Specification

Mixing ratio	100	parts by weight	WEVOPUR 1222		
	163	parts by weight	WEVONAT 360		
Viscosity (22°C)	WEVOPUR 1222:		1.800	– 2.500	mPa·s
	WEVONAT 360:		900	– 1.500	mPa·s
	Mixture:		1.800	– 2.500	mPa·s
Density (22°C)	WEVOPUR 1222:		1,03	– 1,07	g/cm³
	WEVONAT 360:		1,13	– 1,17	g/cm³
Colour	WEVOPUR 1222:		colourless		
	WEVONAT 360:		colourless		
Pot life (100 g)	50 – 60 minutes		at room temperature		
	The curing time depends on the temperature, the pot life, the thickness of the layer and the casting volume				
Curing time	12 – 24 hours		at room temperature		

Physical Properties (after curing 12h/22°C + 24 h/80°C)

		Test specification
Shore-hardness D	75 – 85	In accordance DIN ISO 7619-1:2012-02 (Pressing time 3 sec.)
Tensile strength	38 N/mm ²	DIN EN ISO 527-2:2012-06
Elongation at break	69 %	DIN EN ISO 527-2:2012-06
Modulus of elasticity	1900 N/mm ²	DIN EN ISO 527-2:2012-06
Thermal conductivity	0,2 W/m·K	DIN EN ISO 22007-2:2015-12
Glass transition temperature	36°C	TMA ISO 11359-2:1999-10
Coefficient of Expansion	80 ppm/K	< T _g , TMA ISO 11359-2:1999-10
	190 ppm/K	> T _g , TMA ISO 11359-2:1999-10
Thermal class	E	In accordance DIN EN 60085:2008-08
Water absorption	0,7 %	after 30 days immersion
Flammability	HB	In accordance UL94

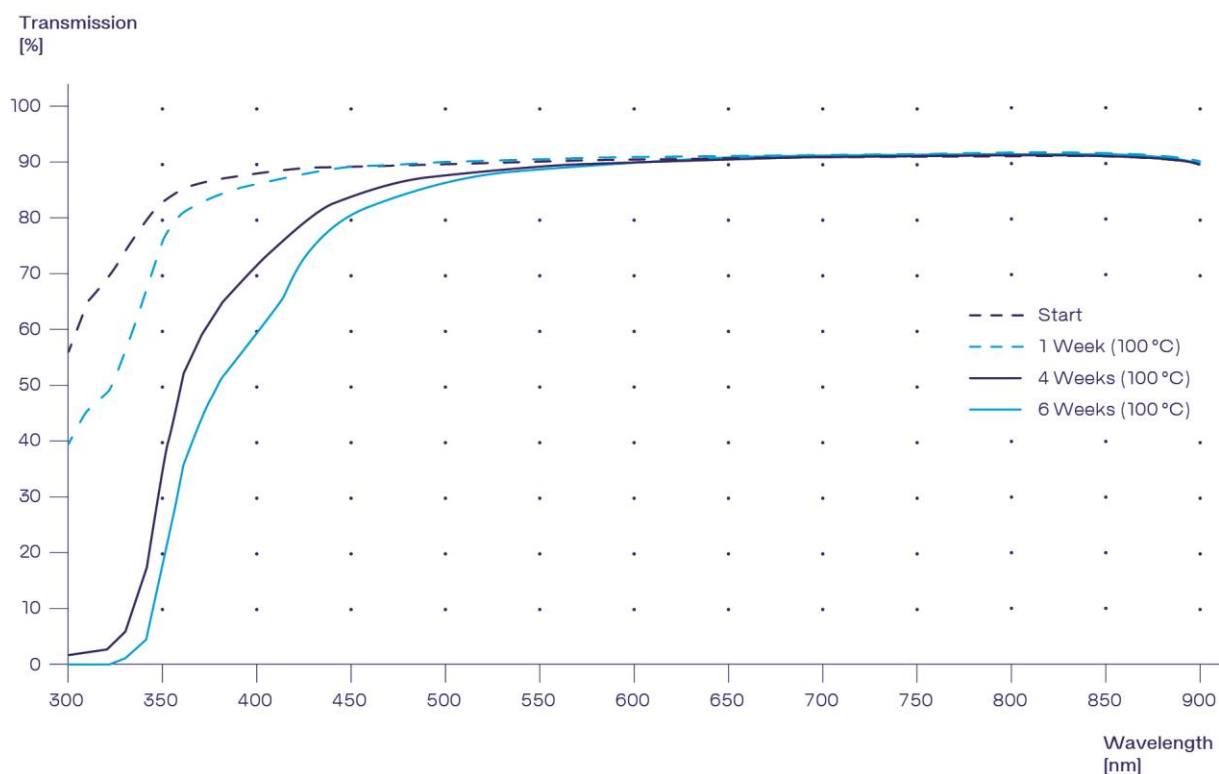
Electrical Properties

		Test specification
Dielectric strength	29 kV/mm	In accordance DIN EN 60243:2014-01
Volume resistance 23°C/50% r.h.	10 ¹⁵ Ω·cm	DIN EN 62631-3-1:2017-01
Surface resistance 23°C/50% r.h.	10 ¹⁴ Ω	DIN EN 62631-3-2:2017-01
Dielectric constant ε at 50 Hz, 23°C at 1 kHz, 23°C at 1 MHz, 23°C	2,74 2,72 2,59	In accordance DIN EN IEC 62631-2-1:2018-12
Dissipation factor tan δ at 50 Hz, 23°C at 1 kHz, 23°C at 1 MHz, 23°C	0,010 0,005 0,001	In accordance DIN EN IEC 62631-2-1:2018-12

Optical Properties

		Test specification
Refractive Index	1,47	DIN EN ISO 11664-4:2012-06
Color Stability	-40°C to +80°C	
Transmission Values		DIN 5036-3

WEVOPUR 1222 + WEVONAT 360 (100 °C)



Packaging: 10 kg und 25 kg-buckets , 200 litre drums

Shelf life: in original closed cans or drums, dry storage between 15°C and 25°C, 6 months after production

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