

WEVOPUR 323

Two-component unfilled encapsulating system based on polyurethane with low viscosity.

This system exhibits an excellent flexibility at low temperatures and good thermal endurance up to 130°C.

Additionally it shows immediate miscibility of resin and hardener.

Temperature range of use: -40°C to +130°C .

The casting resin is used with **WEVONAT 300**

Applications: Encapsulation of pressure sensitive electrical applications that demand high thermal endurance.

Product Specification:

<u>Mixing ratio:</u>	by weight: 100 parts WEVOPUR 323:	
	10 parts WEVONAT 300	
<u>Viscosity (22°C):</u>	WEVOPUR 323:	1.200 - 1.700 mPa·s
	WEVONAT 300:	70 - 120 mPa·s
	Mixture:	700 - 800 mPa·s
<u>Density (22°C):</u>	WEVOPUR 323:	1,03 - 1,06 g/cm ³
	WEVONAT 300:	1,20 - 1,24 g/cm ³
<u>Colour:</u>	WEVOPUR 323:	black or as requested
	WEVONAT 300:	dark brown
<u>Pot life (150g):</u>	ca. 70 minutes	at room temperature
	The curing time depends on the temperature, the potlife, the thickness of the layer and the casting volume.	
<u>Curing time:</u>	12 - 24 hours	at room temperature
<u>Final hardness:</u>	10 - 14 days	at room temperature

It is possible to accelerate the potlife and curing time as requested.

Physical Properties:

<u>Shore-hardness A:</u>	45 - 50	ISO 868, DIN 53505
<u>Tensile strength:</u>	1 N/mm ²	ISO 527-2
<u>Elongation at break:</u>	48 %	ISO 527-2
<u>Modulus of elasticity:</u>	3 N/mm ²	ISO 527-2
<u>Thermal conductivity:</u>	0,2 W/m·K	ISO 22007-2:2008
<u>Glass transition temperature:</u>	-51 °C	TMA
<u>Coefficient of Expansion:</u>	68 ppm/K 268 ppm/K	< -50°C, TMA > -50°C, TMA
<u>Thermal class:</u>	B	IEC 60085
<u>Shrinkage after curing:</u>		
<u>Water absorption:</u>	4,1 %	after 30 days immersion
<u>Flammability:</u>	HB	UL94

Electrical Properties:

<u>Dielectric strength:</u>	19 kV/mm	IEC 60243-1 VDE 0303, TI.2
<u>Volume resistance:</u> 23°C/50% r.h.	$7,1 \cdot 10^{10} \Omega \cdot \text{cm}$	IEC 60093 VDE 0303, TI.30
<u>Surface resistance:</u> 23°C/50% r.h.	$6,4 \cdot 10^{14} \Omega$	IEC 60093 VDE 0303, TI.30
<u>Dielectric constant ϵ:</u> at 50 Hz, 23°C bei 1 kHz, 23°C bei 1 MHz, 23°C	7,4 7,2 6,1	IEC 60250 VDE 0303, TI.4
<u>Dissipation factor $\tan \delta$:</u> at 50 Hz, 23°C bei 1 kHz, 23°C bei 1 MHz, 23°C	0,285 0,029 0,073	IEC 60250 VDE 0303, TI.4
<u>Comparative tracking index:</u>	CTI 600	IEC 60112 VDE 0303, TI.1

Packaging: 5 kg, 10 kg and 30 kg-buckets 200 kg drums

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

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