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Technical Datasheet

WEVOPUR 552 FL

Two-component encapsulating system based on polyurethane. The resin component contains a mineral filler providing the material with self-extinguish properties. The resin contains no halogenated flame-retardants and is tough elastic.

The system is tested by Underwriters Labotatories under the File-No. E108835 at a thickness of 1,5 mm according to UL 94 V-0. HWI, HAI and CTI-tests are passed with PLC 0, the RTI value is 130°C (mechanical and electrical strenght). This product has the all colour recognition.

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

The casting resin is used with WEVONAT 300 M

Applications: Encapsulation, sealing or coating of electrical components for low and medium voltage applications like sensors, switches or PCBs.

Product Specification:

Mixing ratio:	100	parts by weight	WEVOPUR 552 FL		
	20	parts by weight	WEVONAT 300 M		
Viscosity (22°C):	WEVOPUR 552 FL :		6.000	– 7.000	mPa·s
	WEVONAT 300 M :		100	– 170	mPa·s
	Mixture:		1.200	– 1.600	mPa·s
Density (22°C):	WEVOPUR 552 FL :		1,55	– 1,60	g/cm³
	WEVONAT 300 M :		1,20	– 1,24	g/cm³
Colour::	WEVOPUR 552 FL :		black or as requested		
	WEVONAT 300 M :		dark brown		
Pot life (250g):	30 – 50 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		

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

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Physical Properties:
(after curing 24 h./80°C)

		Test specification:
Shore-hardness D:	60 – 70	In accordance with ISO 7619-1 (Pressing time 3 sec.)
Tensile strength:	6 N/mm²	ISO 527-2
Elongation at break:	62 %	ISO 527-2
Modulus of elasticity:	55 N/mm²	ISO 527-2
Thermal conductivity:	0,61 W/m·K	ISO 22007-2:2008
Glass transition temperature:	15°C	TMA
Coefficient of Expansion:	58 ppm/K 142 ppm/K	< 10°C, TMA > 20°C, TMA
Thermal class:	B	DIN EN 60085
Shrinkage after curing:	1 %	
Water absorption:	0,4 %	after 30 days immersion
Flammability:	V-0, 1,5 mm	UL94
Glow wire flammability:	-	DIN EN 60695-2-11:2014-11

Electrical Properties:

Dielectric strength:	29 kV/mm	DIN EN 60243
Volume resistance: 23°C/50% r.h.	10^{13} Ω·cm	DIN EN 62631-3-1:2016
Surface resistance: 23°C/50% r.h.	10^{16} Ω	DIN EN 62631-3-2:2016
Dielectric constant ε: at 50 Hz, 23°C at 1 kHz, 23°C at 1 MHz, 23°C	 5,6 4,6 3,7	DIN EN 60250
Dissipation factor tan δ : at 50 Hz, 23°C at 1 kHz, 23°C at 1 MHz, 23°C	 0,117 0,084 0,038	DIN EN 60250
Comparative tracking index:	CTI 600-0.1	DIN EN 60112

Packaging: 10 kg and 30 kg-buckets, 250 kg drums

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

RoHS conform

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version 03/18 replaces version 01/12