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Technical Datasheet

WEVOPUR 390

Two-component encapsulating system based on polyurethane.

The resin component is formulated with a mineralfiller which provides self-extinguishing properties.
The material achieves UL 94 V-2 properties at a thickness of 1,5 mm and is approved and listed under the File No. E108835 in colours black, grey and brown.
The resin contains no halogenated flame-retardants, no heavy metals or chlorofluorocarbons.

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

The casting resin is used with WEVONAT 300 M

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

Product Specification:

Mixing ratio:	100	parts by weight	WEVOPUR 390		
	30	parts by weight	WEVONAT 300 M		
Viscosity (22°C):	WEVOPUR 390:		1.600	– 2.400	mPa·s
	WEVONAT 300 M:		100	– 170	mPa·s
	Mixture:		900	– 1.200	mPa·s
Density (22°C):	WEVOPUR 390:		1,28	– 1,31	g/cm³
	WEVONAT 300 M:		1,20	– 1,24	g/cm³
Colour::	WEVOPUR 390:		black or as requested		
	WEVONAT 300 M:		dark brown		
Pot life (250 g):	35 – 50 minutes		at room temperature		
Curing time:	12 – 24 hours		at room temperature		
	The curing time depends on the temperature, the pot life, the thickness of the layer and the casting volume				

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

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Physical Properties: (after curing 24 h/80°C)		Test specification:
Shore-hardness D:	35 – 45	In accordance with ISO 7619-1 (Pressing time 3 sec.)
Tensile strength:	7 N/mm²	ISO 527-2
Elongation at break:	88 %	ISO 527-2
Modulus of elasticity:	15 N/mm²	ISO 527-2
Thermal conductivity:	0,4 W/m·K	DIN 22007-2/2008
Glass transition temperature:	7 °C	TMA
Coefficient of Expansion:	80 ppm/K 190 ppm/K	< -10°C, TMA > +5°C, TMA
Thermal class:	B	DIN EN 60085
Shrinkage after curing:	-	
Water absorption:	0,3 %	after 30 days immersion
Flammability:	V-2, 1,5 mm	UL94
Glow wire flammability:	960°C, 5,8-6,8 mm	DIN EN 60695-2-11:2014-11
Electrical Properties:		
Dielectric strength:	32 kV/mm	DIN EN 60243
Volume resistance: 23°C/50% r.h.	$6{,}7 \cdot 10^{14}$ Ω·cm	DIN EN 62631-3-1:2016
Surface resistance: 23°C/50% r.h.	$1{,}1 \cdot 10^{16}$ 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	 5,5 4,4 3,6	DIN EN 60250
Dissipation factor tan δ : at 50 Hz, 23°C at 1 KHz, 23°C at 1 MHz, 23°C	 0,14 0,09 0,03	DIN EN 60250
Comparative tracking index:	CTI 600	DIN EN 60112

Packaging: 5 kg, 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 after production.

RoHS conform

pur390_nat300m_engl
version 05/19 replaces version 01/19