

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.

Operating temperature -40°C to +130°C.

The casting resin is used with WEVONAT 300

<u>Applications:</u> Encapsulation of electrical components like coils, sensors, capacitors or PCBs.

Product Specification:

<u>Mixing ratio:</u>	by weight: 100 parts WEVOPUR 552FL	
	20 parts WEVONAT 300	
<u>Viscosity (22°C):</u>	WEVOPUR 552FL:	6.000 - 7.000 mPa•s
	WEVONAT 300:	70 - 120 mPa•s
	Mixture at 22°C:	1.000 - 1.300 mPa•s
<u>Density (22°C):</u>	WEVOPUR 552FL:	1,56 - 1,60 g/cm³
	WEVONAT 300:	1,20 - 1,24 g/cm³
<u>Colour:</u>	WEVOPUR 552FL:	black, nature or as requested
	WEVONAT 300:	dark brown
<u>Pot life (250gr.):</u>	35 - 50 minutes	at room temperature
	The curing time depends on the temperatu the layer and the casting volume.	ure, the potlife, the thickness of
<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.



WEVO-CHEMIE GMBH | P.O. Box 3108 | D-73751 Ostfildern-Kemnat | Schönbergstrasse 14 | D-73760 Ostfildern-Kemnat Telephone +49 (0)711 - 167 61-0 | Fax +49 (0)711 - 167 61-44 | info@wevo-chemie.de | www.wevo-chemie.de Commercial register: Stuttgart HRB 213899 | Managing directors: Peter Barwitzki | Dipl.-Kfm. Wolfram Proksch | VAT No. DE812988009

Electro Casting Resins | Adhesives



Physical Properties: Test specification: ISO 868, DIN 53505 Shore-hardness D: 65 - 70 ISO 527-2 Tensile strength: 6 N/mm² ISO 527-2 Elongation at break: 62 % ISO 527-2 Modulus of elasticity: 55 N/mm² ISO 8894 Thermal conductivity: 0,61 W/m·K Glass transition temperature: 15 °C TMA Coefficient of Expansion: 58 ppm/K < 10°C TMA 142 ppm/K > 20°C TMA Thermal class: В IEC 60085 Shrinkage after curing: 1 % Water absorption: after 30 days immersion 0.4 % Flammability: V-0, 1,5 mm UL 94 Glow wire flammability: 960°C, 3,5mm IEC 60695-2-1 **Electrical Properties:** Dielectric strength: 29 kV/mm IEC 60085 VDF 0303. TL2 Volume resistance: $5 \cdot 10^{13} \Omega \cdot cm$ 23°C/50% r.h. IEC 60093 VDE 0303, TI.30 Surface resistance: $2.8 \cdot 10^{16} \Omega$ 23°C/50% r.h. IEC 60093 VDE 0303, TI.30 Dielectric constant $\varepsilon_{:}$ at 50 Hz, 23°C 5.6 IEC 60250 at 1 kHz, 23°C 4.6 VDE 0303, TI.4 at 1 MHz, 23°C 3,7 Dissipation factor tan δ : at 50 Hz, 23°C IEC 60250 0.117 at 1 kHz, 23°C 0.0842 VDE 0303, TI.4 at 1 MHz, 23°C 0,038 Comparative tracking index: CTI 600-0.1 IEC 60112 VDE 0303, Tl.1

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.

Our technical advice - whether verbal, in writing or by way of trials - are given to the best of our knowledge and belief and shall be considered as nonbinding information only, even with regard to possible property rights of third parties; this information shall not discharge Purchaser from making his own examinations of the products concerning their suitability for the intended processes and purposes. The application, use and processing of our products take place out of our control capacity, and therefore lie solely within the purchaser's area of responsibility. However, in the event of any dispute the liability for damages shall be limited to the value of the goods delivered by us and processed by the purchaser. Of course, we guarantee the impeccable quality of our products according to our general sales and delivery conditions. Please refer to the material safety data sheets as well as our information sheet for the manual treatment and for application of WEVO Polyurethane-Casting resin on automatic mix-meter machines. pur552fl_nat300