



## WEVO-Casting Resin PU 925/1 M

### Technical Datasheet

Solventless casting resin system based on polyurethane, consisting of resin and hardener. The resin component contains the non-abrasive filler and is degased.

A casting resin for electrical application for low and middle voltage, e.g. for power or instruments transformers, capacitors and electronic components.

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

The resin is used with **WEVO-Hardener 600**.

#### Product Specification:

<u>Mixing ratio:</u>	by weight :	100 parts PU 925/1 M : 30 - 33 parts Hardener 600
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<u>Viscosity (22°C):</u>	PU 925/1 M:	1.200 - 1.800 mPa-s
	Hardener 600:	420 - 520 mPa-s
	Mixture:	850 - 1.100 mPa-s

<u>Density (22°C):</u>	PU 925/1 M:	1,21 - 1,24 g/cm <sup>3</sup>
	Hardener 600:	1,20 - 1,24 g/cm <sup>3</sup>

<u>Colour:</u>	PU 925/1 M:	black or as requested
	Hardener 600:	dark brown

<u>Pot-life (200 g):</u>	ca. 45 minutes
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<u>Curing time:</u>	18 hours	at 25°C or
	4 hours	at 60°C or
	120 minutes	at 80°C

*The curing time depends on the temperature, the pot-life, the thickness of the layer and the casting volume.*

<u>Final hardness:</u>	10 days
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*It is possible to accelerate the pot-life and curing time as requested.*



**CURED PROPERTIES:**

<u>Shore-Hardness A / D:</u>	80 / 30	ISO 868, DIN 53505
<u>Tear resistance:</u>	8 MPa	DIN 53507
<u>Tear strength:</u>	14 MPa	DIN 53455
<u>Thermal conductivity:</u>	0,38 W/m·K	DIN VDE 0304, TI.1
<u>Coefficient of expansion:</u>	$118 \cdot 10^{-6} \text{ K}^{-1}$	20-100°C
<u>Glass transition temperature:</u>	- 18°C	DIN 53445
<u>Shrinkage (22°C):</u>	0,5 %	DIN 16945
<u>Water absorption:</u>	0,6 %	after 30 days immersion

**Electrical Properties:**

<u>Dielectric strength:</u>	25 kV/mm	IEC 243 DIN VDE 0303, TI.3
<u>Volume resistivity:</u>		
23°C / 50 % r.F.	$1,3 \cdot 10^{11} \Omega \cdot \text{cm}$	IEC 93
4 d / 80 % r.F.	$1,4 \cdot 10^{10} \Omega \cdot \text{cm}$	DIN VDE 0303, TI.3
1 d Wasserlagerung	$4,7 \cdot 10^9 \Omega \cdot \text{cm}$	
<u>Surface resistivity:</u>		
23°C / 50 % r.F.	$6 \cdot 10^{13} \Omega$	IEC 93
4 d / 80 % r.F.	$3,7 \cdot 10^{12} \Omega$	DIN VDE 0303, TI.3
1 d Wasserlagerung	$1,7 \cdot 10^{13} \Omega$	
<u>Dielectric constant <math>\epsilon</math>:</u>	6,33	IEC 250
bei 50 Hz, 23°C		DIN VDE 0303, TI.4
<u>Dissipation factor <math>\tan \delta</math>:</u>	0,068	IEC 250
bei 50 Hz, 23°C		DIN VDE 0303, TI.4
<u>Comparative tracking index:</u>	CTI 600	IEC 112 DIN VDE 0303, TI.1

Packing: 1 kg, 5 kg, 10 kg und 30 kg-bucket, 250 kg drums

Shelf life: in original closed cans or drums, at a dry storage between 18°C and 25°C, 6 months.

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PU 925/1M / Hä 600  
Version 01/03 replaces version 4/97

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