

WEVO-Casting Resin PU 7210 M

Two-component encapsulating system based on polyurethane with very low viscosity. The resin component is formulated with non-abrasive mineral fillers.

The cured polymer exhibits tough properties. The product processes a high thermal distortion temperature.

Temperature range of use: -40°C to +145°C .

The product can be used up to temperatures of 150°C on a short term basis.

The casting resin is used with **WEVO-Hardener 300**

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

Product Specification:

<u>Mixing ratio:</u>	by weight: 100 parts Casting Resin PU 7210 M	
	43 parts Hardener 300	
<u>Viscosity (22°C):</u>	Casting Resin PU7210M:	8.500 - 11.500 mPa·s
	Hardener 300:	70 - 120 mPa·s
	Mixture:	2.400 - 3.000 mPa·s
<u>Density (22°C):</u>	Casting Resin PU7210M:	1,68 - 1,70 g/cm ³
	Hardener 300:	1,20 - 1,24 g/cm ³
<u>Colour:</u>	Casting Resin PU7210M:	black or as requested
	Hardener 300:	dark brown
<u>Pot life (250g):</u>	ca. 20 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>	8 - 12 hours	at room temperature
<u>Final hardness:</u>	7 days	at room temperature

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

Physical Properties:

<u>Shore-hardness D:</u>	85 - 90	ISO 868, DIN 53505
<u>Tensile strength:</u>	54 N/mm ²	ISO 527-2
<u>Elongation at break:</u>	2 %	ISO 527-2
<u>Modulus of elasticity:</u>	5000 N/mm ²	ISO 527-2
<u>Thermal conductivity:</u>	0,55 W/m·K	ISO 8894
<u>Glass transition temperature:</u>	115 °C	TMA
<u>Coefficient of Expansion:</u>	58 ppm/K 151 ppm/K	< 110°C, TMA > 120°C, TMA
<u>Thermal class:</u>	B	IEC 60085
<u>Shrinkage after curing:</u>		
<u>Water absorption:</u>	0,3 %	after 30 days immersion
<u>Flammability:</u>	HB	UL94

Electrical Properties:

<u>Dielectric strength:</u>	33 kV/mm	IEC 60243-1 VDE 0303, TI.2
<u>Volume resistance:</u> 23°C/50% r.h.	10 ¹⁴ Ω·cm	IEC 60093 VDE 0303, TI.30
<u>Surface resistance:</u> 23°C/50% r.h.	10 ¹⁷ Ω	IEC 60093 VDE 0303, TI.30
<u>Dielectric constant ε:</u> at 50 Hz, 23°C	3,8	IEC 60250 VDE 0303, TI.4
<u>Dissipation factor tan δ :</u> at 50 Hz, 23°C	0,05	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 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 - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and therefore, entirely your own responsibility. Should in spite of this occur a case of liability from our side, this will be limited to any damage to the value of the merchandise delivered by us. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.