Electro Casting Resins | Adhesives



WEVO-Casting Resin PU 570

Two-component encapsulating system based on polyurethane. The resin component is formulated with a non-abrasive mineral filler.

The cured polymer exhibits tough-elastic properties. The product processes good thermal endurance and thermal conductivity as well as excellent behavior in thermal cycle tests.

Temperature range of use: -25°C to +130°C.

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

<u>Applications:</u> Encapsulation of electrical components for low and medium voltage applications.

Product Specification:

<u>Mixing ratio:</u> by weight: 100 parts Casting Resin PU 570

20 parts Hardener 300

<u>Viscosity (22°C):</u> Casting Resin PU570: 3.500 - 4.600 mPa·s

Hardener 300: 70 - 120 mPa·s

Mixture: 1.500 - 2.000 mPa·s

<u>Density (22°C);</u> Casting Resin PU570: 1,56 - 1,59 g/cm³

Hardener 300: 1,20 - 1,24 g/cm³

<u>Colour:</u> Casting Resin PU570: black or as requested

Hardener 300: dark brown

<u>Potlife (250g):</u> 30 - 50 minutes at room temperature

The curing time depends on the temperature, the potlife, the thickness

of the layer and the casting volume.

Curing time: 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.

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Physical Properties:	Test specification:

Shore-Hardness D:	65 - 70	ISO 868, DIN 53505
Tensile strength:	6 N/mm²	ISO 527-2
Elongation at break:	60 %	ISO 527-2
Modulus of elasticity:		ISO 527-2
Thermal conductivity:	0,56 W/m•K	ISO 8894
Glass transition temperature:	8 °C	TMA
<u>Coefficient of Expansion:</u>	72 ppm/K 170 ppm/K	< 0°C, TMA > 10°C, TMA
Thermal class:	В	IEC 60085
Shrinkage after curing:	1 %	
Water absorption:	0,4 %	after 30 days immersion
Flammability classification:	НВ	UL94

Electrical Properties:

<u>Dielectric strength:</u>	28 kV/mm	IEC 60243-1 VDE 0303, TI.2
Volume resistance: 23°C/50% r.h.	10 ¹⁴ Ω· cm	IEC 60093 VDE 0303, TI.30
Surface resistance: 23°C/50% r.h.	$10^{15}\Omega$	IEC 60093 VDE 0303, TI.30
Dielectric constant ε: at 50 Hz, 23°C	5,6	IEC 60250 VDE 0303, TI.4
Dissipation factor tan d: at 50 Hz, 23°C	0,12	IEC 60250 VDE 0303, TI.4
Comparative tracking index:	CTI 600	IEC 60112 VDE 0303, TI.1

Packaging: 5 kg, 10 kg and 30 kg-buckets 250 kg drums

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

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