

Technical Datasheet

WEVOPUR 71 / 60 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 dielectric strength.

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

The casting resin is used with WEVONAT 300

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

Product Specification:

<u>Mixing ratio:</u>	100	parts by weight	WEVOPUR 71/60 M		
	25	parts by weight	WEVONAT 300		
<u>Viscosity (22°C):</u>	WEVOPUR 71/60 M:	4.000	–	5.500	mPa·s
	WEVONAT 300:	70	–	120	mPa·s
	Mixture:	1.800		2.200	mPa·s
<u>Density (22°C):</u>	WEVOPUR 71/60 M:	1,62	–	1,66	g/cm³
	WEVONAT 300:	1,20	–	1,24	g/cm³
<u>Colour::</u>	WEVOPUR 71/60 M:	black or as requested			
	WEVONAT 300:	dark brown			
<u>Pot life (250 g):</u>	30 – 40 minutes	at room temperature			
<u>Curing time:</u>	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.

Physical Properties:

(after curing 24 h/80°C)

<u>Shore-hardness D:</u>	82 - 86
<u>Tensile strength:</u>	25 N/mm ²
<u>Elongation at break:</u>	50 %
<u>Modulus of elasticity:</u>	-
<u>Thermal conductivity:</u>	0,55 W/m•K
<u>Glass transition temperature:</u>	40 °C
<u>Coefficient of Expansion:</u>	70 ppm/K 163 ppm/K
<u>Thermal class:</u>	B
<u>Shrinkage after curing:</u>	-
<u>Water absorption:</u>	0,5 %
<u>Flammability:</u>	HB
<u>Flexural strength:</u>	-

Electrical Properties:

<u>Dielectric strength:</u>	30 kV/mm
<u>Volume resistance:</u> 23°C/50% r.h.	10 ¹⁴ Ω·cm
<u>Surface resistance:</u> 23°C/50% r.h.	7 · 10 ¹³ Ω
<u>Dielectric constant ε:</u> at 50 Hz, 23°C	4,4
at 1 KHz, 23°C	-
at 1 MHz, 23°C	-
<u>Dissipation factor tan δ:</u> at 50 Hz, 23°C	0,027
at 1 KHz, 23°C	-
at 1 MHz, 23°C	-
<u>Comparative tracking index:</u>	CTI 600

Test specification:

In accordance with ISO 7619-1 (Pressing time 3 sec.)
ISO 527-2
ISO 527-2
ISO 527-2
DIN 22007-2/2008
TMA
< -10°C, TMA > +5°C, TMA
DIN EN 60085
after 30 days immersion
UL94
DIN EN ISO 178

<u>Packaging:</u>	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 after production.

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RoHS conform

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