

Stobicast® L 622.01

General product information

This is a two component elastomeric polyurethane casting resin with good electrical properties. This casting is suitable for low voltage applications - for example transformers, capacitors, coils and switches -.

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Typical properties at 20 °C

	Polyol	Polyisocyanate	Mixture
Density [g/cm³] DIN 53217/2	1,13	1,08	1,12
Viscosity [mPa·s] DIN 53018/1+2	1300	3500	2200
Mixing ratio by weight	100	100	
Flash Point [°C]	200	200	

Pot life

max. 50 minutes at 20 °C possible

Colour

black

Curing profile

The curing time depends at room temperature on the pot life, cast quantity, resin- and mould temperature. Heat application will accelerate the curing (e. g. 4 h at 100 °C).

Typical mechanical properties

Shore hardness	55 A	DIN EN ISO 868
Tensile strength	2,5 N/mm ²	DIN 53455
Elongation at break	68 %	DIN 53455
Water absorption	13 mg in 24 h 28 mg in 96 h	DIN 53495

Typical electrical properties

Dielectric strength ED	32 kV/mm	IEC 243
Surface resistivity ROC	10 ¹³ Ω	IEC 93
Spec. current flow	10 ¹³ Ω cm	IEC 93
Tracking resistivity	CTI>600 V	IEC 112
Dissipation factor at 50 Hz	tan δ 23 °C = 0,17 tan δ 50 °C = 0,04 tan δ 80 °C = 0,25	VDE 0303/4
Dielectric constant at 50 cps	ε _r 23 °C = 4,6 ε _r 50 °C = 7,1 ε _r 80 °C = 6,6	IEC 250
Electrolytic corrosion	A / 1.2	VDE 0303/6

Processing conditions

The processing is done by preference with a two component metering and mixing machine. These machines enable a working with short pot lives. The parts to be cast should be clean, dry and free from grease.

Precaution

Material safety data sheet should be read very carefully before use.

Packaging

200 L drums. Other size on request.

Storage

Both components must be protected against humidity. Do not store at temperature below + 5 °C. 15 - 25 °C is the most favourable storage temperature. Original closed drums can be stored for at least 6 months at ambient temperature. After a long storage period, the resin component should be stirred well before using.

Notice

The information herein is based on our present experience and is believed to be correct. Notice of legal requirements and existing patent rights has to be taken.

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