

BÜFA®-Resin VE 7100

Tooling

Art.-No. 7007100

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BÜFA®-Resin VE 7100 Tooling is a filled and pre-accelerated resin system with reduced monomer content, based on a vinyl ester resin and LP additive, dissolved in styrene. BÜFA®-Resin VE 7100 Tooling has low reactivity and viscosity and cures almost shrink-free when used properly.

Profile

Product type	Resin
System	Tooling
Colour	beige
Odour	like styrene

Application Range

BÜFA®-Resin VE 7100 Tooling is used for the production of GRP molds that are exposed to strong mechanical and thermal stress. The fast through-curing and reduced exotherm, as well as the dimensional stability of the system make BÜFA®-Resin VE 7100 Tooling an ideal resin for mold making.

Specification / Technical Data

Density (BM D01) approx.	1.33 g/mL
Flashpoint (BPV FP 02) approx.	33.5°C
Styrene content approx.	33.3 %
Viscosity (BM V01) Viscosity at 20°C with spindle 2 and 50 rpm	450 - 650 mPas

The BÜFA testing standards define the testing scenario after the values are determined in our facilities. They relate to generally accepted standards and are available under request.

Curing

Reactivity	BM R01
Sample size	100g sample
Peroxide addition	1.5 vol% Curox M-303
Geltime (Reactivity 20-30°C)	35 - 50 min
Curing time (Reactivity 20°C-Tmax)	55 - 70 min
Tmax (Reactivity Tmax at 20°C)	130 - 145 °C

We recommend post-curing (tempering) the component for several hours at 80°C, as this is the only way to achieve the optimum mold material properties.

ATTENTION! The above information refers exclusively to the use of the peroxides mentioned here in the indicated dosage. If other products are used or if the dosage differs, the results may vary.

Processing

The resin should be stirred gently before use.

Before use, the resin should be tempered to temperatures of approx. 18 - 23 °C suitable for processing. Otherwise, both the viscosity and thus the impregnation behavior as well as the curing will be negatively affected.

Insufficient homogeneity can lead to processing errors.

BÜFA®-Resin VE 7100 Tooling can be processed by hand or by fiber spraying. The laminate thickness to be achieved in one operation must be at least 3 mm thick. Additional information on optimum processing can be found in the technical information on the BÜFA®-Tooling system.

Storage and handling

As a result of the wide range of factors which may influence the operating conditions and the application of the product, the user must still carry out their own tests and trials.

The product must be kept closed, cool, dry and protected from sunlight.

In unopened and undamaged original containers, at storage temperatures of up to 20 °C the product can be used for at least 3 months.

The inspection and assurance of the product quality (goods which meet the specifications) take place within the framework of quality control immediately after the product has been manufactured.

The setting and curing times as well as the viscosities may vary with longer storage periods.

The above details have been compiled to the best of our knowledge and are based on our current knowledge and experience. These details only constitute product descriptions. Under no circumstances do they constitute guarantees relating to quality or durability. The processor is obliged to carry out their own tests and investigations in order to take responsibility for any processing and application of our products in the processor's application area. The latest version of the corresponding EU safety data sheet must also be observed.