BÜFA®-Firestop S 570

Art.-No. 7160570

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BÜFA®-Firestop S 570 is a pre-accelerated, highly thixotropic laminating resin. It is also medium reactive and low viscosity. It is produced from a special unsaturated polyester resin dissolved in styrene and methyl methacrylate. The resin is halogen-free. It contains aluminum hydroxide as a flame retardant. In addition, it is equipped with a skin former to reduce styrene emission.

Profile

Product type	Resin
System	FIRESTOP
Product properties	fire retardant resin
Pre-accelerated product	Yes
Colour	blue
Odour	like styrene

Application Range

BÜFA®-Firestop S 570 is used for the production of molded parts with fire protection properties.

Specification / Technical Data

Density (BM D01) approx.	1.55 g/mL
Flashpoint (BPV FP 02) approx.	32°C
Styrene content approx.	16.7 %
Viscosity (BM V01) **Viscosity at 20°C with spindle 5 and 20 rpm**	1,000 - 1,300 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	2.0 vol% Butanox M-50
Geltime (Reactivity 20-30°C)	25 - 35 min
Curing time (Reactivity 20°C-Tmax)	45 - 60 min
Tmax (Reactivity Tmax at 20°C)	100 - 130 °C

In order to achieve the optimum mechanical and fire protection properties, the moulded parts are to be post-cured for at least 6 hours at + 80 °C.

BÜFA®-Firestop S 570 can be cured with the commercially available ketone peroxides.

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.

The thickness of the laminate and its overall structure - including any top layers, coatings, applications, sandwich inserts, etc. - also have a decisive influence on fire properties. It is necessary to take into account that individual component tests are prescribed for most applications in accordance with the relevant fire protection standards. An open, emulsion-bonded mat is best suited as a textile glass fiber mat, as this allows faster impregnation by the resin.

Fire Retardant properties

The thickness of the laminate and its overall structure - including any top layers, coatings, applications, sandwich inserts, etc. - also have a decisive influence on fire properties. It is necessary to take into account that individual component tests are prescribed for most applications in accordance with the relevant fire protection standards.

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.

Higher temperatures reduce storage life.

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

Frost must be avoided.

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.

Settling of the fillers can be observed with increasing storage time. Homogenization of the container before use is therefore essential.

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.