BÜFA®-Firestop 6815-N-4

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BÜFA®-Firestop 6815-N-4 is an unfilled, unsaturated polyester resin, dissolved in styrene. The resin is halogenated, medium reactive and non thixotropic.

Profile

Product type	Resin
System	FIRESTOP
Product properties	fire retardant resin
Pre-accelerated product	No
Colour	transparent
Odour	Characteristic

Application Range

BÜFA®-Firestop 6815-N-4 is used for the production of fire-protected, translucent sheet material and can be used in both machine and manual applications. BÜFA®-Firestop 6815-N-4 has a very high light transmission value in cured laminates (depending on the glass fibre products used for reinforcement), good weather resistance and is light-stabilised. Due to its low viscosity, BÜFA®-Firestop 6815-N-4 has a very good impregnation and wettability of glass fibres and a fast curing speed for machine applications.

Specification / Technical Data

Density (BM D01) approx.	1,24 g/mL
Flashpoint (BPV FP 02) approx.	27,5°C
Styrene content approx.	28 %
Viscosity (BM V03) **Viscosity at 23 °C with measuring body Z2 and 100 rpm**	200 - 220 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 R03
Accelerator addition	0.5 weight % 989-0054
Peroxide addition	BUTANOX M50 2.0 weight %
Geltime (Reactivity 25 - 35 °C)	10 - 12 min
Curing time (Reactivity 25 °C max. temp)	17 - 23 min
Tmax (Reactivity max temperature at 25 °C)	145 - 175 °C

CAUTION! Peroxides must never come into direct contact with accelerators (risk of explosion)! With regards to the resin base used here, it is essential to ensure that the reactants are precisely dosed and homogeneously mixed. Under all circumstances, it must be ensured that the hardener and accelerator are stirred in separately. First mix the accelerator thoroughly with the resin; then add the peroxide!

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

Before use, the resin should be brought to temperatures suitable for processing – i.e. to at least 20 °C. Otherwise, both the viscosity (and thus the impregnation properties) and the curing are negatively influenced.

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.

The product is light-stabilised. If the end products are exposed to outdoor weathering or UV radiation, additional protection in the form of a coating or film should be applied.

Orientation for fire testing

Orientation tests: Class 0/1 - Laminate construction: 2 layers 450 g/m² powder-bonded mat (resin:glass ratio: 2:1).

The laminates were produced under ideal, controlled laboratory conditions. This information does not replace component testing by the manufacturer.

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 stored closed, in a cool, dry place and protected from sunlight.

In unopened, original containers, the product can be processed for at least 3 months if properly stored at up to 20 °C.

Higher temperatures reduce storage life.

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 change as a result of lengthy storage periods.