

## BÜFA®-Firestop S 555

Fire Protection Injection Resin

Prod. No. 7160555

- Product description** BÜFA®-Firestop S 555 is a pre-accelerated, thixotropic injection resin. The resin is also highly reactive, has low viscosity and is made of a special DCPD resin dissolved in styrene. The resin is halogen-free and contains aluminium hydroxide as a flame retardant.
- Applications** BÜFA®-Firestop S 555 can be used for the production of moulded components with fire protection properties in **RTM** as well as **hand lay-up processes**.  
If processing times are longer, 7160556 BÜFA®-Firestop S 555 #2 can be used as an alternative which has a gel time of 30-37 minutes with the addition of 1.5 ml Butanox M 50.

Specifications / technical data	Property	Test method	Value	Unit
	Density at 20 °C	DIN 53 217/2	1,35 - 1,45	g/ml
	Viscosity at 20 °C Brookfield RV/DV-II spl 5., 20 rpm .	ISO 2555	600-900	mPas
	Non-volatile constituants	TM 2033	67 - 71	%
	Flash point	DIN 53 213	32	°C
	HDT	ISO 75 A	100	°C
	Elongation in %		2,8	

- Curing**
- Reactivity:**  
**BÜFA method in accordance with DIN 16 945 6.2.2.1**  
(100 g resin + 1.5 ml Butanox M 50)
- |            |              |
|------------|--------------|
| 20 - 30 °C | 15 - 23 min  |
| Tmax       | 100 - 155 °C |
- Gel time at 20 °C in a 100 g cup with 1.5 ml Butanox M 50:** 15 - 23 min

**Attention!**

The information given above refers exclusively to the use of the catalyst named and the quantity specified. The use of different products or differing quantities may yield different results.

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## Directions for use

Before the resin is processed, it should be conditioned at an exactly defined, process-dependent temperature. Temperatures > 20 °C are ideal for injection.

Because of its thixotropic stabilisation, the filler has little tendency to settle. Long stirring processes should be avoided; the resin should be gently stirred for max. 0.5 hours before using. "Gentle stirring" is understood as stirring at low speed, just setting the material on the side of the container in motion. Only a minimal "whirlpool" effect should take place at the centre of the container.

To reduce viscosity, 1-2% of the injection additive 742-0018 can be used which reduces viscosity to 400-600 mPas.

## Note:

To achieve optimal mechanical and fire protection properties, the moulded components should be post-cured for at least 8 hours at +80 °C. The thickness of the laminate and its entire construction, including any top coats, varnishes, applications, sandwich components, etc. also have a decisive influence on fire behaviour. Always remember that individual component tests are mandatory for most applications.

## Fire protection properties

Fire protection tests using an 8 mm thick, random fibre reinforced laminate (30% by weight glass content) combined with 1 mm thick BÜFA Firestop®-GC S 270-S/NP Grey BF-70035-E according to **GOST 12.1 044-89** produced the following ratings:

**4.19 Index of flame propagation I = 1.1**

**4.3 Flammability and combustibility "hardly flammable"**

Please get in touch with our Technical Service Department for further information. The laminates were produced under ideal, controlled laboratory conditions.

This information does not replace component tests by the manufacturer.

## Storage/Handling

This product must be stored cool in closed containers, protected from sunlight. Shelf-life is at least 3 months in unopened, original containers stored up to a temperature of 20 °C. Gel and curing times may change with increasing duration of storage.

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Note: The Information given above is based on our current state of knowledge and experience. In view of the many factors that may Influence working conditions and the application of our products, the user is not relieved from carrying out his own tests and experiments. No legally binding warranty of certain properties or suitability for a particular purpose can be derived from this information. It is the responsibility of the receiver or user of our products to observe proprietary rights as well as existing laws and regulations. The latest version of the corresponding EU Safety Data Sheet must also be observed.

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