

BÜFA®-Firestop 2754-P-2

Fire Protection Resin

Prod. No. 7162754

Product description BÜFA®-Firestop 2754-P-2 is an unfilled, pre-accelerated and unsaturated polyester resin on an orthophthalic acid base dissolved in styrene. The resin is halogenated, moderately reactive and thixotropic.

Applications BÜFA®-Firestop 2754-P-2 is used for the production of moulded parts with fire protection properties in hand lay-up, spray-up or liquid resin press moulding processes.

BÜFA®-Firestop 2754-P-2 was developed to allow a high degree of filling with fire protection fillers.

Specifications / technical data

Property	Test method	Value	Unit
Density at 23 °C	TM 2160	1,13	g/ml
Viscosity at 23 °C Physica Z 2, 20 s-1	TM 2313	260 - 330	mPas
Viscosity at 23 °C Physica Z 2, 250 s-1	TM 2313	175 - 225	mPas
Appearance	TM 2265	rose	
Flash point	TM 2800	33	°C

Curing

Reactivity:
BÜFA method in accordance with DIN 16 945 6.2.2.1
(100 g resin + 1 % Butanox M 50)

25 - 35 °C	22.5 - 27.5 min
25 °C - Tmax	27.5 - 37.5 min
Tmax	125 - 145 °C

Gel time at 25 °C in a 100 g cup with 1 % Butanox M 50: 22.5 - 27.5 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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Mechanical Properties	<u>Property*</u>	<u>Test method</u>	<u>Value</u>
	Flexural strength	ISO 178	153 MPa
	Flexural E-modulus	ISO 178	3,900 MPa
	Impact resistance, unnotched	ISO 179	78 kJ/m ²
	Tensile strength	ISO 527-2	98 MPa
	Tensile E-modulus	ISO 527-2	5,000 MPa
	Elongation at break	ISO 527-2	2.1 %
	Hardness	Barcol	40

* Measured in a standard laboratory atmosphere on test specimens made of a laminate with 3 layers of powder bound, glass fibre mats 450 g/m² (resin-glass ratio 3:1) that were conditioned for 3 h at +80 °C after curing for 24 hours at room temperature (stored).
Curing formulation: 100g resin + 1 % Butanox M 50.

Properties of the cured base resin	<u>Property*</u>	<u>Test method</u>	<u>Value</u>
	Flexural strength	ISO 178	49 MPa
	Flexural E-modulus	ISO 178	1,500 MPa
	Impact resistance, unnotched	ISO 179	4.1 kJ/m ²
	Tensile strength	ISO 527-2	27 MPa
	Tensile E-modulus	ISO 527-2	1,600 MPa
	Elongation at break	ISO 527-2	1.8 %
	Heat distortion temperature (HDT)	ISO 75-A	65 °C

* Measured in a standard laboratory atmosphere on cast test specimens made of pure resin that were conditioned for 3 h at +80 °C after curing for 24 hours at room temperature (stored). Curing formulation: 100g resin + 1% Butanox M 50.

Directions for use

The resin should be conditioned to at least 15 °C before using and stirred before and during the filling process.

To ensure a sound bond, further lamination work or bonding should take place at the latest 1.5 hours after the resin has cured; otherwise, the surface to be bonded must be sanded and thoroughly prepared (cleaned) afterward.

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Note: 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.

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.

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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