

BÜFA® - Arctic-Gelcoat-ISO-S

UP/ISO Gelcoat, spraying quality

Prod. No. 5759999

Technical Data Sheet

Product description

BÜFA® Arctic Gelcoat ISO-S is a pre-accelerated gelcoat in a spraying consistence made of unsaturated polyester resin. The base resin is a pure isophthalic acid resin dissolved in styrene and HEMA.

Applications

BÜFA® Arctic Gelcoat ISO-S can be used for moulded parts that are subjected to strong weathering or normal hydrolysis (e.g. boat and vehicle construction).

Specifications / technical data

Property	Test Method	Value	Unit
Density at 20 °C	Din 53 217/2	Ca. 1,1 – 1,3	g/ml
Viscosity at 20°C Brookfield RV/DV-II spl 4 rpm 4	ISO 2555	11000 – 16000	mPas
Styrene content		29 -34	%
Flash point	DIN 53 213	+32	°C

Curing

Reactivity		
BÜFA-Method in accordance with DIN 16 945 6.2.2.1 (100 g gelcoat + 1.5 ml Butanox M-50)	20 - 30 °C 20 °C – Tmax Tmax	10 - 18 min 18 - 28 min 150 - 180 °C
Gel time at 20 °C in a 100 g cup with 1.5 g Curox M-303		10-18 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. Density depends on pigmentation.

Properties of the cured base resin

Property*	Test metode	Value
Tensile strength	ISO 527-2	75 - 85 MPa
Tensile E-modulus	ISO 527-2	3,400 - 4,400 MPa
Elongation at break	ISO 527-2	3.5 - 4.5 %
Heat distortion temperature HDT)	ISO 75-A	approx. 90 °C

* Measured in a standard laboratory atmosphere on cast test specimens made of pure resin conditioned for 24 hours at +80 °C.

Directions for use

Our release agent system BF 500 /BF 700 has been tested and successfully used with this gelcoat. Before using other release agents, they should be tested for suitability under practical conditions. If circumstances permit, we recommend post-curing the moulded part for several hours at + 80 °C to achieve optimal gelcoat properties. Stir the gelcoat gently before using. For more information on working and curing, see the notes in our Technical Information leaflet, "Working with BÜFA® - Gelcoats".

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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