

## BÜFA-TOOLING-RESIN

DCPD-Tooling resin

Prod. No. 700-1974

**Product description** BÜFA Tooling Resin is a filled and pre-accelerated resin system with a reduced monomer content based on a DCPD polymer and LP additive dissolved in styrene. BÜFA Tooling Resin has low reactivity and viscosity and cures practically shrink-free when properly worked.

**Applications** BÜFA Tooling Resin is used for the production of GRP moulds that are subjected to heavy mechanical and thermal loads. Fast curing and reduced exothermic character as well as the dimensional stability of the system make BÜFA Tooling Resin ideal for mould construction.

Specifications / technical data	Property	Test method	Value	Unit
	Density at 20°C	DIN 53 217/2	1,35	g/ml
	Viscosity at 20°C Brookfield RV/DV-II Spl 3 rpm 20	ISO 2555	900 - 1400	mPas
	Styrene content		34-36	%

**Curing** Gel time at 20 °C in a 100 g cup with 2.0 % Butanox M-50: 40 - 45 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.

Properties of the cured base resin	Property*	Test method	Value
	Tensile strength	ISO 527-2	47 MPa
	Tensile E-modulus	ISO 527-2	5.6 GPa
	Elongation at break	ISO 527-2	1.8 %
	Flexural strength	DIN 53 452	62 MPa
	Flexural E-modulus	DIN 53 457	4.0 GPa
	Heat distortion temperature (HDT)	ISO 75-A	80 °C

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1 Measured in a standard laboratory atmosphere on cast test specimens made of pure resin that were conditioned for 16 hours at + 60 °C.

## Directions for use

BÜFA Tooling Resin can be worked by hand or in a spray lay-up process. The thickness of the laminate achieved in one working operation must be 5 mm thick. Additional notes on optimal working are found in the Technical Information pamphlet "BÜFA Tooling System".

Before using, the resin should be brought to the proper temperature for working, 15-25 °C, best is 20 °C. The resin should also be thoroughly stirred before use. Insufficient homogeneity can lead to processing errors.

## 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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