

# Fast Cast Resin 010

## Unfilled 2-component polyurethane fast cast resin

Two-component polyurethane fast cast resin, that cures quickly and is very easy to process. For foundry patterns, mold plates, core sleeves, cores, negatives and auxiliary molds of all kinds, control casts, prototypes, copy molds and stylistic models, support molds, trimming and assembly gauges.

### OVERVIEW

- unfilled
- practically odourless
- low exothermic reaction
- very good castability (also with filler)
- high thermostability
- abrasion-resistant
- good through-curing
- small shrinkage
- very well processable (milling, turning, drilling, sawing)

PHYSICAL SPECIFICATIONS			
Composition		POLYOL GP 010 B	ISOCYANATE GP 010 A
Mixing ratio by weight		100	100
Colour		whitish	light yellow
Base		Polyol component, pigmented	Polyisocyanate
Viscosity at 25 °C	mPa·s	80 ± 10	25 ± 5
Density at 20 °C	g/cm³	approx. 1.02	approx. 1.14

Mixture POLYOL / ISOCYANATE			Polyol GP 010 B / Isocyanate GP 010 A	Polyol GP 010 B / Isocyanate GP 010 A / DT 082
Mixing ratio		Weight	100 : 100	100 : 100 : 300 – 500
Colour	optical		yellowish	yellowish
Density at 20 °C		g/cm³	approx. 1.10	approx. 1.7
Viscosity at 25 °C		mPa·s	50 ± 5	2.000–3.800
Potlife at 20 °C	200 g	min	7–8	10–12
Full cure at RT		h	approx. 0.5–1	approx. 1–1,5
Max. layer thickness		mm	approx. 20	approx. 100

### After Hardening (7 days at room temperature or 14h/40 °C)

Flexural strength	ISO 178	N/mm²	50 ± 5	57 ± 5
Flexural modulus from flexural test	ISO 178	N/mm²	1.500 ± 100	1.500 ± 100
Compressive strength	ISO R 604	N/mm²	40 ± 5	50
Shore D-hardness	ISO 7619		70–75	80
Thermostability	DIN EN ISO 75B	°C	89 ± 3	89 ± 3

### PROCESSING INSTRUCTIONS

Before processing, warm the components to at least 18 °C and shake thoroughly.

Processing of the fast cast resin is also possible without filler. When using a filler, we recommend stirring half of the DT 082 filler into each of the two components GP 010 A and GP 010 B separately before mixing. Afterwards, the two mixtures can be mixed very easily and homogeneously.

The products are to be processed in the temperature range of 18 °C to 25 °C.

## FORM OF DELIVERY

Description	PU	Article number
Fast Cast Resin GP 010 A/B	2 x 1 kg bottles	8sg010.ab
Fast Cast Resin GP 010 A	5 kg Canister	8sg010.a05
Fast Cast Resin GP 010 B	5 kg Canister	8sg010.b05

## HANDLING PRECAUTIONS

Gössl + Pfaff products can be processed without danger, provided that the handling precautions usual in handling chemicals are kept.

Unhardened materials are to be kept away from food. In order to avoid allergic reactions, it is urgently recommended to wear impermeable rubber or plastic gloves, eye protection and one-way protective clothing.

After each working day as well as before breaks and using the toilet, the hands must be thoroughly washed with warm water and soap. Afterwards the skin is dried with paper cloths – no textiles.

The work space should be well ventilated; maybe suction device above work space.

The use of solvents is to be avoided.

Observe safety data sheet!

Safety data sheets can be found on our homepage under [www.goessl-pfaff.de](http://www.goessl-pfaff.de) in the respective product.

## STORAGE

Both components must be stored at 20 to 25 °C and should remain in the original containers if possible.

The expiration date is indicated on the product labels.

## INFORMATION

The information contained in this technical data sheet result from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of Gössl + Pfaff GmbH products, under their own conditions before commencing with the proposed application. Application, use and processing of the products take place outside of our controllability and exclusively lie therefore in your area of responsibility. Gössl + Pfaff GmbH guarantees that the products agree with the respective specifications. Gössl + Pfaff GmbH does not take responsibility in damage or accidents, which can develop when using the products. The responsibility of Gössl + Pfaff GmbH is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.