

# Rapid casting resin GP 010

## Unfilled 2-component PUR rapid casting resin

Two-component PUR fast casting resin that hardens quickly and is very easy to work with.

For foundry patterns, mold plates, core boxes, core cores, negatives and auxiliary molds of all kinds, control casts, prototypes, copy molds and stylistic models, support molds, trimming and assembly gauges.

- unfilled
- practically odorless
- low exotherm
- Very good pourability (also with filler)
- Very heat resistant
- abrasion resistant
- good through-hardening
- Low shrinkage
- Excellent machinability (milling, turning, drilling, sawing)

PHYSICAL SPECIFICATIONS			
Composition		POLYOL GP 010 B	ISOCYANATE GP 010 A
Mixing ratio by weight		100	100
Color		whitish	light yellow
Base		Pigmented polyol component	Polyisocyanate
Viscosity at 25 °C	mPa·s	80 ± 10	25 ± 5
Density at 20 °C	g/cm <sup>3</sup>	approx. 1.02	approx. 1.14

Mixture POLYOL / ISOCYANATE			Polyol GP 010 B / Isocyanate GP010 A	Polyol GP 010 B / Isocyanate GP 010 A / DT 082
Mixing ratio		Weight	100 : 100	100 : 100 : 300 - 500
Color	optical		yellowish	yellowish
Density at 20 °C		g/cm <sup>3</sup>	approx. 1.10	approx. 1.7
Viscosity at 25 °C		mPa·s	50 ± 5	2.000-3800
Pot life at 20 °C	200 g	min	7-8	10-12
Final curing at RT		h	approx. 0.5-1	approx. 1-1.5
Max. layer thickness		mm	approx. 20	approx. 100

### After curing (7 days RT or 14 h/40 °C)

Bending strength	ISO 178	N/mm <sup>2</sup>	50 ± 5	57 ± 5
E-modulus from Bending test	ISO 178	N/mm <sup>2</sup>	1.500 ± 100	1.500 ± 100
Compressive strength	ISO R 604	N/mm <sup>2</sup>	40 ± 5	50
Shore hardness (Shore D)	ISO 7619		70-75	80
Heat resistance	DIN EN ISO 75B	°C	89 ± 3	89 ± 3

## PROCESSING INSTRUCTIONS

Warm the components to at least 18 °C and shake thoroughly before use.

The fast casting resin can also be processed without filler. If a filler is used, we recommend stirring half of the filler DT 082 into each of the two components GP 010 A and GP 010 B separately before mixing. The two mixtures can then be mixed together very easily and homogeneously.

The product should be processed in the temperature range 18-25 °C.

Fast casting resin GP 010 can be colored with EP + PU color pastes from G+P. Our color pastes only have a very minor effect on the processing and final properties of GP 020 bio fast casting resin (at a proportion of <5 %).

## FORM OF DELIVERY

Designation	VE	Item number
Rapid casting resin GP 010 A/B Rapid casting resin GP 010 A Rapid casting resin GP 010 B	2 x 1 kg bottles 5 kg Canister 5 kg Canister	8sg010.ab 8sg010.a05 8sg010.b05

## PRECAUTIONARY MEASURES

Gößl + Pfaff products can be processed without risk, provided that the usual precautions for handling chemicals are observed. Keep uncured materials away from food. To avoid allergic reactions, it is strongly recommended to wear impermeable rubber or plastic gloves, safety goggles and disposable protective clothing.

Hands must be washed thoroughly with warm water and soap after each working day and before breaks and visits to the toilet. The skin should then be dried with disposable paper towels - not textiles.

The work area should be well ventilated; if necessary, an extraction system should be installed above the workplace. The use of solvents should be avoided.

Observe safety data sheet!

Safety data sheets are available in the online store at [www.goessl-pfaff.de](http://www.goessl-pfaff.de) for each product.

## STORAGE

Both components should be stored at 20 to 25 °C in a dry place and, if possible, in the original containers. The expiry date is indicated on the product labels.

## NOTE

Our technical application advice, whether verbal, in writing or by means of tests, is given to the best of our knowledge, but is only non-binding information, also with regard to any third-party property rights, and does not release you from your obligation to test the products supplied by us for their suitability for the intended processes and purposes. The application, use and processing of the products are beyond our control and are therefore exclusively your responsibility. Gößl + Pfaff GmbH guarantees that the products comply with the respective specifications. Gößl + Pfaff GmbH accepts no responsibility for damage or accidents that may occur when using the products. The responsibility of Gößl + Pfaff GmbH is limited to the refund or replacement of products that do not comply with the stated specifications.