



Characteristics

- Crystal clear
- UV resistant
- Designed for accurate castings
- Can be poured from a layer thickness of 10 mm
- Low viscosity (liquid)
- De-mouldable after 2-4 hours (at 20 °C)
- Can be cast without vacuum.

Polyurethane Casting System Crystal clear

This PU is ideal for making crystal clear castings or colored clear objects like colored gemstones or charms.

Description

A crystal clear polyurethane casting system consisting out of an A and B component. This system is designed for the casting of larger castings (10-20mm thickness) with high strength. Pu is crystal-clear and UV resistant. The Pu is due to the high fluidity very easy to pour. Use of a vacuum pump, will however improve the results.

Technical data

Mixing ratio (weight)	[A: B]	1: 1
Processing time	[Min]	25-35
De-mould time@ 20 °C *	[Hours]	24
Color (UV-resistant)	[-]	Bright
Time for full cure (100 g, 60 ° C)	[Days]	7
Hardness after fully cure	[Shore D]	82
Viscosity	[mPa s]	150

* Full hardness after > 7 days at room temperature, after 2 to 3 days no longer flexibel.

Processing

Always protective gloves and goggles when processing this material. Add the A and B component in equal parts by weight to each other (1: 1), and mix the components thoroughly. Pour the mixed product with a constant and thin jet into the mold. try not to entrap air. Excessive heat in castings of more than 15mm thickness can be prevented by pouring several successive layers (allow the layer to set but not harden before casting the next layer). De-mould after the specified time has elapsed. The mechanical properties will develop rapidly, but it is possible to improve the thermal behavior by post-curing the casting for one hour in the mold at a temperature of 60 - 70°C.

Important

If the B component has become too cold, it will crystallise. In this case, the B component should slowly be heated to about 60°C and left there for a few hours (not over a flame!). Low (ambient) temperatures will result in longer pot life and de-mould times. If you want to use this PU with a new mold made from condensation silicone, you need to post cure the silicone mold first 1-2 hours at 100-140 ° C (then allow cooling). This prevents reactions between the silicone mold and the PU (stickiness). We highly recommend this crystal clear PU to be used in an addition-curing silicone like the Silicone Plastique or Culinary. Always use this Pu at room temperature and preheat the mold to 40-50 °C. Leave the cast to deair for a few minutes and place the mould back in the oven at 40-50 °C. This prevents formation of gas by contact with water in the air.

Packing

The crystal clear polyurethane casting system is provided in a kit consisting of equal parts A and B (in weight).

Shelf_life

The Crystal clear PU is best stored in a dry place between 18 ° C and 28 oC. Opened containers should be processed as soon as possible to ensure the product quality. The shelf life of well-closed containers in the manner indicated is usually 6 months.

Safety

The products are in liquid form harmful to health. Contact with skin of one or both components must be prevented. Vapors of this product may cause respiratory irritation when used over for long or frequently. When handling this product, wear protective gloves. Always work in a well ventilated area. For further information see safety data sheet.