

CP RANGE OF CLEAR POLYURETHANES

Clear, rigid Polyurethanes

CP200 and CP220 are water white, impact resistant polyurethane casting resins designed specifically for applications that require absolute clarity, the casting resins vary only in pot-life and de-moulding times.

The low viscosity of the resins ensures easy mixing and pouring. The CP range of products cure at room temperature with negligible shrinkage and produce clear, rigid, impact resistant castings. Applications include electronic encapsulation, prototype models and decorative display castings.

CHARACTERISTICS

- ◆ Low Viscosity
- ◆ Water white casting polyurethane.
- ◆ Good impact resistance
- ◆ Low level shrinkage

TYPICAL PROPERTIES

PROPERTY	CP200*		CP220**	
	Part A	Part B	Part A	Part B
Composition	Polyol	Isocyanate	Polyol	Isocyanate
Mix Ratio (PBW)	100	100	100	100
Casting Thickness	5mm – 20mm		20mm – 200mm	
Gel Time @ 20°C (mins)	40		80	
Demould Time (hours)	2		12	
Full Cure Time (hours)	4 (@60°C)		5 (@80°C)	
Hardness after full Cure (shore D)	85		85	

* Properties based on 100g sample @ 20°C.

** Properties based on 4Kg sample @ 20°C.

PROCESSING INFORMATION

Preparation of moulds

Ensure moulds are clean, moisture free and at an ambient temperature of 15-25°C prior to casting.

Method of use

Ensure that both parts are mixed well before use.

Accurately weigh part A and B in accordance with the indicated mix ratio and mix thoroughly ensuring that the material on the sides and the bottom of the container is fully mixed.

The mix should then be degassed for approximately 1 minute under vacuum in order to obtain a bubble free product before casting

Pour the material slowly into the mould to avoid air entrapment, avoid scraping the sides of the container when pouring to ensure no streaks or under mixed product is transferred into the casting.

The cure time of the CP range is dependant on the thickness of the casting, mould configuration and mass concentration.

A postcure of 4-6 hours at 60-80°C is recommended after the initial cure to increase the hardness and heat distortion temperature.

HEALTH & SAFETY / STORAGE INFORMATION

Store in original unopened containers at 5 to 25°C - avoid contact with moisture.

Shelf life: 12 months if stored under recommended conditions.

Please consult the health and safety data sheet before using this product

This is not a specification. The information given in this data sheet in relation to the performance, storage and other characteristics of the product is based on results gained from experience and tests and is believed to be accurate. Given, however, that conditions of use and storage will vary, Amber Composites will not be liable for any loss or damage resulting from reliance upon such information. The purchaser is recommended to carry out his own tests to establish the suitability of the product for its particular purpose. The use of the product in certain processes may require third party consent.