

## Product Name

**PROCAST®**

## Medium Cure Polyurethane Resin

### Product Description

Two-component rigid urethane casting compound that cures at room temperature and features:

- Excellent Flow
- General Shore 65D Hardness range
- Rapid setting
- More flexibility than other similar resins
- Compatible with a wide range of fillers
- Excellent detail reproduction because of its low viscosity
- Easy 1:1 mix ratio by weight and low setting exotherm temperature of just 77°C

### Typical Applications

Procast is widely used for Pattern & Foundry Tooling, Architectural Models, Model Kits, Collectibles, Mirror & Picture Frames, Movie Props, Masters & Prototypes and most other Decorative Components. Excellent choice for filling to create moulds and larger tools.

### Physical Properties

Hardness		Shore D	65±2
Specific Gravity, cured		[g/cc]	1.08
Colour			Tan
Ultimate Tensile		[psi]	4 450
Elongation		[%]	6.0
Flexural Strength		[psi]	8 300
Flexural Modulus		[psi]	209 000
Shrinkage, linear	unfilled	[in/in]	0.0169

### Handling Properties

Mix Ratio	By Weight	Part A	100 pbw
		Part B	100 pbw
Viscosity	cps @ 25°C	Mixed	150
Work Time	100g mass @ 25°C		5 minutes
Gel Time	100g mass @ 25°C		6 minutes
Demould Time	@ 25°C		1+ hours (note 1)
Cure Schedule	7 days ambient; or demould followed with post cure of 16 hours @ 70°C is recommended to promote maximum physical properties as given above		

## Storage

Store at room temperature in a dry area.

## Note 1

PROCAST® generally cures to a demouldable state in about 1 hour, however, thin sections or certain part configurations may require more in-mould cure time. Sections that are less than 3mm may require more time before demould.

## Note 2

Both components should be mixed before each use to ensure uniformity of the materials. Opened containers of material should be purged with F720 Dry Air Blanket prior to replacing lids or caps, to prevent moisture contamination from humid air.

## Issue Date

5<sup>th</sup> July 2017

## Revision Number

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## Disclaimer

The data presented in this leaflet are in accordance with the present state of our knowledge, and does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the product for a particular purpose.