

## Product Name

**SUPERCAST®**

## 70 Shore D Polyurethane Casting System

### Product Description

Supercast is a two-component rigid urethane casting compound. It cures to approximately Shore 70D and is tan in colour. Supercast is rapid setting and demonstrates more flexibility than other similar materials. Supercast is compatible with a wide range of fillers and can reproduce intricate detail as a result of its low viscosity. The system is easy to process with a 1:1 mix ratio and has a low setting exotherm temperature of only 77°C. Supercast can be demoulded in 10-30 minutes which allows fast production of parts. It is commonly used for pattern and foundry tooling, architectural models, model kits, collectibles, masters and prototypes, movie props, mirror/picture frames & ornamental mouldings, decorative components.

### Physical Properties

Hardness		Shore D	70±2
Specific Gravity (cured)		[g/cc]	1.03
Colour			Tan
Tensile Strength		[psi]	3 389
Elongation		[%]	12.5
Flexural Strength		[psi]	8 000
Flexural Modulus		[psi]	198 000
Shrinkage (linear)	Unfilled	[in/in]	0.009

### Handling Properties

Mix Ratio	By Weight	Part A	100 pbw
		Part B	100 pbw
Viscosity	cps @ 25°C	Part A	150
		Part B	250
		Mixed	200
Gel Time	100g mass @ 25°C		3 minutes
Demould Time	@ 25°C		20+ minutes (note 1)
Cure Schedule	3 days ambient; or demould followed with short post cure of 4-6 hours @ 40°C is recommended to promote maximum physical properties		

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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.