

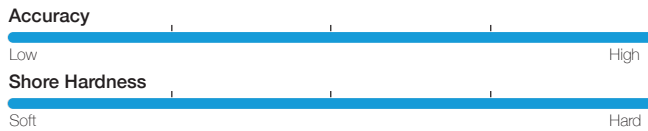


## Daylight Magna Dental Model Beige



Magna Platform pictured shows 48 x Aligner Models

### Properties



### Compatible Printers



### Colours

● Beige

Available in 5kg & 10kg bottles

### Introduction

Photocentric Magna Dental Model Beige has been specially created for 3D printing highly detailed and accurate dental models. It provides outstanding accuracy with at least 90% of scanned models within  $\pm 100\mu\text{m}$  tolerance, perfect for Aligner Dental Model production. Using Magna Dental Model Beige ensures a dry surface finish, accurate detail and great mechanical stiffness, shorter print and post process cycles with a high Shore hardness of 84D.

### Best Used for:

- Orthodontic models for clear aligner manufacture
- Study, opposing and denture base dental models
- Thermoforming

### USPs

- High accuracy
- Crisp definition
- High stiffness and hardness
- Easy to print and post process

## Processing Instructions

- To print with Photocentric Liquid Crystal Magna, choose 'Dental Model Beige' and the desired layer thickness when preparing your print file in Photocentric Studio.
- Heat the resin to 30°C in the bottle.
- Shake the resin bottle for 2 minutes before pouring into the resin vat.

## Post Processing

- Parts can be washed in 15 minutes using Photocentric Resin Cleaner or alternatively, in 10 minutes using Photocentric Resin Cleaner 30.
- Once washed, rinse with warm water for 2 minutes
- Dry with compressed air to remove any remaining water. Or alternatively, leave to air-dry.
- Place the platform into the Photocentric Cure L2 for a minimum of 60 minutes at 60°C or until parts are fully cured.
- Remove the platform from the Cure L2 and immediately submerge in cold water for thermal shocking. Parts can be removed from the platform with minimal effort.
- It is recommended to clean the resin vat after each print job as pigments may settle.

## Properties

### Tensile Properties

Tensile Modulus *	2750 MPa	ASTM D638
Ultimate Tensile Strength *	56 MPa	ASTM D638
Elongation at break *	2.7%	ASTM D638

### Flexural Properties

Flexural Modulus *	2570 MPa	ASTM D790
Flexural Strength *	84 MPa	ASTM D790

### Impact Properties

Impact Strength Notched Izod *	19.5 J/m	ASTM D256
Impact Strength Notched Izod *	2.5 kJ/m <sup>2</sup>	ISO 180

### General Properties

Shore Hardness *	84 Shore D	ASTM D2240
Water Absorption (Short Term)	0.13%	ASTM D570
Viscosity	150 cPs	At 25°C Brookfield spindle 3
Density	1.10 g/cm <sup>3</sup>	
Storage	10<T>50°C	

### Biocompatibility

Cytotoxicity*	Passed	ISO 10993-5
---------------	--------	-------------

\* Mechanical properties stated based on fully cured material.