Technical Datasheet

Magna Dental Model White

Daylight Resin

Photocentric

Magna Dental Model White

Accuracy (Low – High)

Shore Hardness (Low – High)

Compatible Printers

Liquid Crystal
MAGNA

Colour

White

Available in
5kg &10kg bottle

Magna Platform pictured shows 48 x Aligner Models

Photocentric Magna Dental Model White has been specially created for 3D printing highly detailed and accurate dental models. It provides outstanding accuracy and minimal shrinkage with at least 80% of scanned models within ±100µm tolerance, perfect for Aligner Dental Model production. Using Magna Dental Model White ensures a dry surface finish, accurate details, and great mechanical stiffness with a high Shore hardness rating for 3D printed parts.

Optimised for:

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

Revision 4
05/02/2025

Unique features:

Minimal shrinkage of 0.5%

High accuracy

High stiffness and hardness

Magna Dental White Model Properties

Tensile Properties		
Tensile Modulus *	3020 MPa	ASTM D638
Ultimate Tensile Strength *	63 MPa	ASTM D638
Elongation at break *	4.3%	ASTM D638
Flexural Properties		
Flexural Modulus *	2200 MPa	ASTM D790
Flexural Strength *	95 MPa	ASTM D790
Impact Properties		
Impact Strength Notched Izod *	22.7 J/m	ASTM D256
Impact Strength Notched Izod *	3.2 kJ/m2	ISO 180
General Properties		
Shore Hardness *	90 Shore D	ASTM D2240
Heat Deflection Temperature	95°C	ASTM D648
Viscosity	900 cPs	At 25°C Brookfield spindle 3
Density	1.09 g/cm3	
Storage	10<T>50°C	

* Mechanical properties stated based on fully cured material.

We are constantly reviewing and improving our range of high-performance materials.
For the very latest information, please visit the Photocentric website

Pre-Print Instructions

1. To print with Photocentric Liquid Crystal Magna, choose Magna Dental Model - White and the desired layer thickness when preparing your print file in Photocentric Studio.
2. Heat the resin to 30°C in the bottle. Ensure the bottle's lid is loose but not fully open.
3. Close the lid and shake the resin bottle for 2 minutes before pouring into the resin vat.

Post-Print Instructions

1. Parts can be washed in 10 minutes using Photocentric Resin Cleaner 30.
2. Once washed, rinse with warm water for 2 minutes
3. Dry with compressed air to remove any remaining water. Or alternatively, leave to air-dry.
4. Place the platform into the Photocentric Cure L2 for a minimum of 90 minutes at 60°C or until parts are fully cured. Parts after the print have a hint of yellow tint and will turn white after post-curing step.
5. 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.
6. It is recommended to clean the resin vat after each print job as pigments may settle.