Technical Datasheet

Magna Dental Model Beige

460nm

Photocentric

Optimised for:

Orthodontic models for clear aligner manufacture

Thermoforming

Study, opposing and denture base models

Magna Platform pictured shows 48 x Aligner Models

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 ±100µm 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.

Compatible:
LC Magna, LC Titan

Colour
Beige

Avaliable:
5kg &10kg bottle

MADE IN THE UK

Key Features

Minimal shrinkage of 0.5%

High accuracy

High stiffness and hardness

Magna Dental Model Beige 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/m2	ISO 180
General Properties*		
Shore Hardness	84 Shore D	ASTM D2240
Water Absorption (Short Term)	0.13%	ASTM D570
Biocompatibility*		
Cytotoxicity	Passed	ISO 10993-5

* Mechanical properties stated based on fully cured material.

Liquid Properties	Value	Method
Viscosity	150 cPs	At 25°C Brookfield spindle 3
Density	1.10 g/cm3	
Storage	10<T>50°C	

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 - Beige and the desired layer thickness when preparing your print file in Photocentric Studio.
2. Heat the resin to 30°C in the bottle.
3. Shake the resin bottle for 2 minutes before pouring into the resin vat.

Post-Print Instructions

1. Parts can be washed in 15 minutes using Photocentric Resin Cleaner or alternatively, 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 60 minutes at 60°C or until parts are fully cured.
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.