



AJJ
HEALTHCARE MANAGEMENT PTE LTD



SHINING 3D[®]

SHINING DENT

3D Printing Material Catalogue



DM12

Implant Model (Geller Model)

Dental Model DM12 is the ideal choice for printing separated models for crown and bridge application. DM12 optimizes model precision through its lower elasticity and higher flexural modulus compared to the previous DM11. The hardness and mechanical properties of the cured resin allows the DM12 to resist abrasion during seating and finishing for crown and bridge cases, ensuring a perfect fit every time. The yellow color offers maximum detection of margin lines and adjacent contours, and cleanup is easy thanks to the low viscosity of the resin.

→ Low viscosity, high stability



■ Physical Properties – Liquid Status

Color	Yellow
Viscosity @25°C cps	295
Wavelength	405nm

■ Mechanical Properties – Post Cured Parts

Property	Value	Test Method
Hardness Shore D	81	ISO 868
Elasticity Modulus MPa	1404	ISO 527
Tensile Strength MPa	29	ISO 527
Elongation at break %	11	ISO 527
Flexural Modulus MPa	1418	ISO 178
Flexural Strength MPa	48	ISO 178

Post Processing	Value
Cleaning time mins	6
Recommended curing time mins	5 mins per side

OD01

Ortho Model

Ortho model OD01 is an excellent choice for printing models for the fabrication of aligners and orthodontic applications. The high heat resistance and hardness of OD01 allows for the cured models to withstand abrasion and maintain accuracy over multiple uses.

→ High heat resistance, hardness



■ Physical Properties – Liquid Status

Color	Brown
Viscosity @25°C cps	426
Wavelength	405nm

■ Mechanical Properties – Post Cured Parts

Property	Value	Test Method
Hardness Shore D	82	ISO 868
Elasticity Modulus MPa	2003	ISO 527
Tensile Strength MPa	46	ISO 527
Elongation at break %	8	ISO 527
Flexural Modulus MPa	2237	ISO 178
Flexural Strength MPa	82	ISO 178

Post Processing	Value
Cleaning time mins	6
Recommended curing time mins	5 mins per side

DC12

Crown, Bridge, Partial Framework

Dental Cast DC12 is a printable wax-like photopolymer specially developed for investment casting. DC12 is the ideal resin choice for dental applications such as crown and bridge casting and cast partial dentures frameworks. DC12 burns out clean and can also be used in pressed ceramic applications.

→ Low deformation, clean burnout outcome



■ Physical Properties – Liquid Status

Color	Green
Viscosity @25°C cps	105
Wavelength	405nm

■ Mechanical Properties – Post Cured Parts

Property	Value	Test Method
Hardness Shore D	82	ISO 868
Elasticity Modulus MPa	1296	ISO 527
Tensile Strength MPa	22	ISO 527
Elongation at break %	2.3	ISO 527
Flexural Modulus MPa	1533	ISO 178
Flexural Strength MPa	39	ISO 178

Post Processing	Value
Cleaning time mins	6
Recommended curing time mins	3 mins per side

SG01

Surgical Guide, Ortho Guide

Surgical Guide SG01 is a clear and biocompatible resin intended for printing dental surgical guides. It is certified by FDA as Class I medical instrument and meets ISO 10993 standards, making it ideal for customized, non-implantable use with body contact limited to 24 hours. SG01 is a rigid polymer with minimal flex, which allows it to maintain its form during dental surgeries.

→ Biocompatible, transparent



■ Physical Properties – Liquid Status

Color	Transparent
Viscosity @25°C cps	527
Wavelength	405nm

■ Mechanical Properties – Post Cured Parts

Property	Value	Test Method
Hardness Shore D	84	ISO 868
Elasticity Modulus MPa	1873	ISO 527
Tensile Strength MPa	43	ISO 527
Elongation at break %	12.2	ISO 527
Flexural Modulus MPa	2047	ISO 178
Flexural Strength MPa	81	ISO 178

Post Processing	Value
Cleaning time mins	6
Recommended curing time mins	5 mins per side

GM11

Gingiva Mask

Gingiva Mask GM11 is an excellent choice for replicating gingiva contours for digital implant cases. GM11 is a flexible material that can assist in planning the emergence profile for digital implant restorations.

→ Flexible, gingiva color



■ Physical Properties – Liquid Status

Color	Transparent Pink
Viscosity @25°C cps	1179
Wavelength	405nm

■ Mechanical Properties – Post Cured Parts

Property	Value	Test Method
Hardness Shore D	70	ISO 868
Elasticity Modulus MPa	N/A	ISO 527
Tensile Strength MPa	N/A	ISO 527
Elongation at break %	N/A	ISO 527
Flexural Modulus MPa	N/A	ISO 178
Flexural Strength MPa	N/A	ISO 178

Post Processing	Value
Cleaning time mins	6
Recommended curing time mins	3 mins per side

TR01

Custom Tray

Tray TR01 is a biocompatible material with a high elastic modulus making it an outstanding choice for printing custom trays. The high elastic modulus allows the printed tray to resist flexion under high pressure leading to more accurate impressions. Its biocompatibility makes it safe for short term use in the mouth.

→ Biocompatible, high stability



■ Physical Properties – Liquid Status

Color	White
Viscosity @25°C cps	362
Wavelength	405nm

■ Mechanical Properties – Post Cured Parts

Property	Value	Test Method
Hardness Shore D	87	ISO 868
Elasticity Modulus MPa	1981	ISO 527
Tensile Strength MPa	45	ISO 527
Elongation at break %	4.9	ISO 527
Flexural Modulus MPa	2895	ISO 178
Flexural Strength MPa	93	ISO 178

Post Processing	Value
Cleaning time mins	6
Recommended curing time mins	3 mins per side

■ Certificate

Materials	CE	RoHS	REACH	FDA	CFDA/NMPA	CFDA/NMPA
DM12	-	✓	✓	-	class I	-
OD01	-	✓	✓	-	class I	-
DC12	-	✓	✓	-	class I	-
SG01	class I	✓	✓	class I	class I	✓
GM11	-	✓	✓	-	class I	-
TR01	class I	✓	✓	class I	class I	✓

■ Delivery & Storage

Net Weight	1 KG
Storage Temperature	5°C-35°C
Storage Humidity	5% ~ 90%RH
Working Temperature	20°C-30°C
Working Humidity	30-70%RH
Bottle Size mm	D90*225
Package Size mm	125*125*265
Gross Weight	1.1 KG





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