

Irix Max

Technical Data Sheet



Irix Max: Ceramic Filled Hybrid Composite Material for Permanent Restorations

Irix Max is a photosensitive ceramic filled hybrid composite material (42% of ceramic in weight) for the customized production of permanent restorations such as: inlays, onlays, veneers, single crowns and bridges up to three elements by stereolithographic 3D printing.

Irix Max is a Class IIa CE marked medical device*.

To meet aesthetic and functional requirements, Irix Max is available in different monochromatic shades and the unique Photoshade adaptive gradient. Restorations made with Irix Max are characterized by excellent esthetics and high strength values. For perfect characterization, they can be customized with biocompatible products (lacquer, glaze, etc.) and/or light-curing colors.



*Medical device in Class IIa according to Rule 5 of Annex IX, Directive 93/42/EEC.

Features

- High dimensional stability
- Precise fit
- Superior surface quality
- High translucency
- Available in six shades: N, A1, A2, A3, A3.5, B1
- Available in Photoshade adaptive gradient technology

Advice for use

Irix Max is developed for use with DWS Dfab dental 3D printers, equipped with Photoshade technology for adaptive gradient shading. To ensure optimal mechanical performance, dimensional stability, and safety of the printed restoration, the Dcure curing unit must be used, as it performs a hybrid thermal/UV treatment cycle tailored for this material. Always follow the operating instructions provided for the DWS Dfab 3D printer and curing unit. Refer to the official Instructions for Use (IFU) for detailed guidance on design, printing and post-processing procedures.

Technical characteristics of the liquid material

Environmental data for use	22°C - 27°C - max, RH 40% - 60%
Appearance / Color	Liquid / 6 shades available
Density	1,39 g/cm ³
Viscosity	~ 5000 mPa•s at 25°C

Technical characteristics of the printed and cured material

Flexural strength (MPa) (ISO 10477)	> 100
Water sorption (µg/mm ³) (ISO 10477)	< 10
Water solubility (µg/mm ³) (ISO 10477)	< 1.4
Fatigue Test (internal method)	Test cycles (1200000), Simulated 5 years use, No fracture observed*

*Internal fatigue test performed using chewing simulation machine CS-4.4 (SD Mechatronik). Microscopic evaluation confirmed absence of fractures after 1,200,000 cycles simulating 5 years of use.

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Restrictions of use and warnings

Irix Max is a medical device intended for professional use only (dentists and dental technicians). For detailed information on correct use - including application methods, precautions, contraindications, and safety warnings - please refer to the official Instructions for Use (IFU) provided by the manufacturer.

Contraindications

Do not use the device in patients with known allergies or hypersensitivity to methacrylates. Refer to the IFU for the complete list of contraindicated applications.

Precautions and protective measures

The liquid material may cause skin sensitization and is harmful to aquatic life. Use nitrile gloves and protective goggles during handling.

Once polymerized, the solid material is not classified as hazardous.

Refer to the Safety Data Sheet (SDS) available at www.dwssystems.com for detailed safety information.

Storage

Store at 5–30°C in a dry place, away from direct sunlight and heat sources. Do not use after the expiry date indicated on the label.

Disposal

Dispose of liquid material and contaminated containers in accordance with local regulations.

Cured material can be disposed of as non-hazardous industrial waste.

Refer to the IFU and Safety Data Sheet (SDS) at www.dwssystems.com for detailed disposal guidance.

Information for orders

CODE	PRODUCT	CODE	PRODUCT
10200437	IRIX MAX N, DLT, SIZE S, SET 5	10200449	IRIX MAX N, DLT, SIZE L, SET 3
10200438	IRIX MAX A1, DLT, SIZE S, SET 5	10200450	IRIX MAX A1, DLT, SIZE L, SET 3
10200439	IRIX MAX A2, DLT, SIZE S, SET 5	10200451	IRIX MAX A2, DLT, SIZE L, SET 3
10200440	IRIX MAX A3, DLT, SIZE S, SET 5	10200452	IRIX MAX A3, DLT, SIZE L, SET 3
10200441	IRIX MAX A3.5, DLT, SIZE S, SET 5	10200453	IRIX MAX A3.5, DLT, SIZE L, SET 3
10200442	IRIX MAX B1, DLT, SIZE S, SET 5	10200454	IRIX MAX B1, DLT, SIZE L, SET 3
10200443	IRIX MAX N, DLT, SIZE M, SET 3	10200455	IRIX MAX PHOTOSHADE A1-A3.5, DLT, SIZE S, SET 5
10200444	IRIX MAX A1, DLT, SIZE M, SET 3	10200456	IRIX MAX PHOTOSHADE A1-A3.5, DLT, SIZE M, SET 3
10200445	IRIX MAX A2, DLT, SIZE M, SET 3	10200457	IRIX MAX PHOTOSHADE A1-A3.5, DLT, SIZE L, SET 3
10200446	IRIX MAX A3, DLT, SIZE M, SET 3		
10200447	IRIX MAX A3.5, DLT, SIZE M, SET 3		
10200448	IRIX MAX B1, DLT, SIZE M, SET 3		



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This document is reserved for healthcare professionals as it contains information on medical devices that may create situations of danger to the health and safety of the patient if not correctly read, understood and applied by a professional