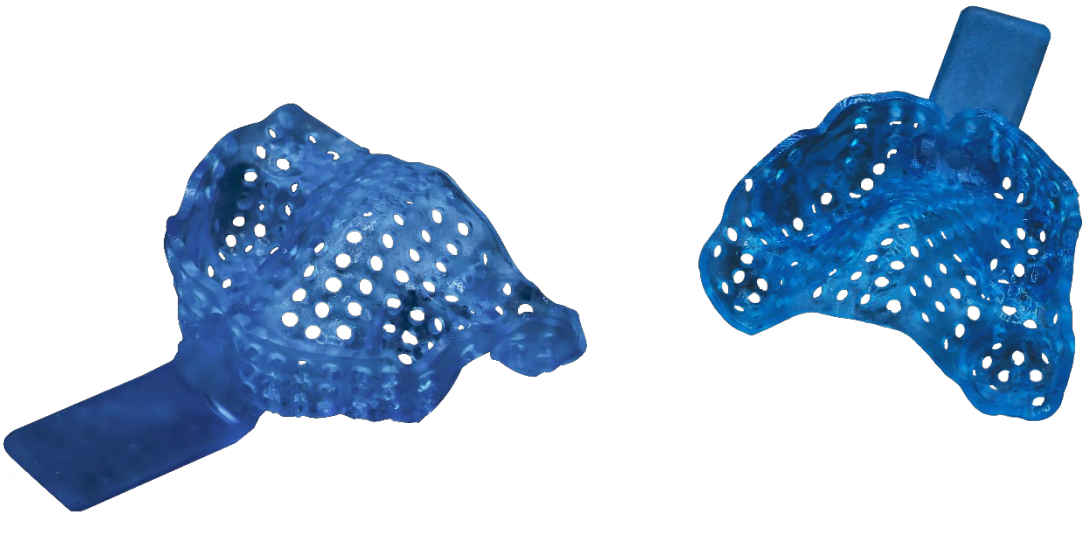
HORUS

TECHNICAL DATA SHEET

Product:	**HORUS Tray**	**Page: 1/3**
Version: 1		**Date: 09.01.2024**

Horus Tray ® Resin



Fast **Low shrinkage** **Accurate**

1. PRODUCT DETAILS

1.1. Product description

HORUS Tray is a class I biocompatible photopolymerizable resin ideal for printing of custom-made trays, particularly in the fabrication of implants, dentures, crowns and bridges. This resin is especially formulated for fast and accurate printing intended to be used with SLA, DLP or MSLA devices in the range of 365-405 nm.

1.2. Availability

1.2.1. Packaging

HORUS Tray is available in 1L bottle.

1.2.2. Colour

HORUS Tray is available in blue colour.

2. PRODUCT PROPERTIES

2.1. Liquid properties

Physical properties of liquid HORUS Tray are shown in the following table:

Property	Unit	Method	Value
Viscosity (23°C)	cP	ISO 1628	150
Density (23°C)	$g.cm^{-3}$	Internal	1,10
Polymerization shrinkage	%	Internal	0,4

2.2. Properties after printing and post-processing

When parts are printed with Horus S-One and post-processed using Clean & Cure S-One according to the instruction for use workflow, the final properties of HORUS Tray are indicated in the following table:

Property	Unit	Method	Value
Flexural strength	MPa	ISO 178	> 70
Flexural modulus	GPa	ISO 178	> 1,8
Water solubility	$\mu g.mm^{-3}$	ISO 20795-2	< 5
Water sorption	$\mu g.mm^{-3}$	ISO 20795-2	< 32
Hardness	Shore D	ISO 868	> 80

Some slight variation may occur from a batch to another.

3. WORKFLOW

Information on the HORUS Tray workflow, from part designing to post-processing including product handling, filling of the resin tank and printing, are available in the instruction for use which is highly recommended to read.

4. STORAGE

HORUS Tray should be kept in the original bottle, closed and stored at a temperature between 10°C and 28°C in a dry place away from light. A small light amount may indeed be sufficient to initiate polymerization. After use, HORUS Tray can be put back in the original bottle using a filter with a maximum mesh size of 200 µm to avoid any contamination. HORUS Tray must not be used after the expiry date.

5. WASTE MANAGEMENT

Fully cured parts can be considered as plastic waste and are not harmful for the environment. However, the liquid resin must be disposed of as a chemical product in accordance with local regulations. Finally, empty packaging must be brought to an approved waste treatment site for recycling or disposal.

6. ADDITIONAL INFORMATION

In addition to this technical data sheet, it is strongly recommended to read the HORUS Tray instruction for use and safety data sheet. Information provided in this instruction for use are based on our knowledge and experience of HORUS Tray in our dental laboratory at the date of this instruction for use. In order to produce optimum quality parts, the process phases indicated in this instruction for use must be strictly followed.

In accordance with EU regulations, medical products are intended for use as custom-made products by dental professionals and the user is responsible for the correct use of the material. Any serious incident involving the medical device must be reported to the manufacturer and to the competent authority of the member state.

If defect appear in HORUS Tray within the warranty period, the user may only claim replacement of the material. 2MS is not liable in any way for any loss or damaged caused by HORUS Tray, whether direct or indirect damage including collateral damage, regardless of the legal basis. 2MS is only liable for direct material damages of HORUS Tray based on deliberate act or gross negligence of its legal representatives or executive staff for personal damage in accordance with the statutory regulations. 2MS cannot be held responsible for the material or for any damage resulting from its use if the user has not followed the specified procedure.

HORUS is a brand of eco-responsible 3D printing resins designed and manufactured in France. The Coq Vert label from ADEME and BPI France attests to our commitment to the ecological and energy transition while the French Fab, French Tech and French Care labels bear witness to our desire to develop French industry and embody an innovative, ambitious and healthcare France. The HORUS research and development centre combines the expertise of chemists and dental 3D printing experts to guarantee continuous improvement of our products and meet all dental needs. Especially, HORUS strives not to use controversial molecules such as bisphenol A (BPA), methyl methacrylate (MMA), tetrahydrofurfyl methacrylate (THFMA) and 2,4,6-Trimethylbenzoyl-diphenylphosphine oxide (TPO) which are still widely used by major actors in the dentistry field.

+ 33 (0)9.72.01.82.82 www.horus3d.fr
460 Av de la Quiera, Voie K, Lot 119a, Mouans-Sartoux 06370
Siret 849.563.069.00020 info@horus3d.com 2MS