

TECHNICAL DATA SHEET PORTUX PMMA DISCS FOR CAD/CAM DPFTPT-101

1. GENERALITIES OF THE PRODUCT

The discs for CAD/CAM application produced by New Stetic are made of poly methyl methacrylate (PMMA), a known material used in the dental field due their physical-chemical, mechanical and biocompatibility properties. These discs are intended for dental CAD/CAM use and have a standard format according to the commercial CAD/CAM machines specifications. Also, the CAD/CAM discs have a wide variety of colors and shapes.

The production of the Portux CAD/CAM discs is founded on the ample experience and knowledge that New Stetic has in the manufacture of PMMA-based polymers and copolymers.



2. INFORMATION ABOUT COMPOSITION

The product is made from polymethyl methacrylate, which is the major component, pigments and modifier additives that allow obtaining the typical properties of the material that make it fit for CAM dental machining systems.

3. PROPERTIES OF THE PRODUCT

The table below shows some relevant properties of the product.

Creation Date		Prepared by:	Reviewed by:	
2021-07-15		Product Design and Development Coordinator	Technical Coordinator of MD	
Class	Page	Approved by:	Update	Version
C	1 of 4	Technical Director of Medical Devices	2022-03-19	01

REFERENCE DOCUMENT: DPDDPR-019

UPDATE: 2021-11-12

VERSION: 02

TECHNICAL DATA SHEET PORTUX PMMA DISCS FOR CAD/CAM DPFTPT-101

Property	Standards
Flexural strength	> 65 MPa
Flexural modulus	> 2000 MPa
Solubility	< 1.6 µg/mm ³
Residual monomer	< 2.2%
Water absorption	< 32 µg/mm ³
Fluorescence	Presence
Compressive strength	> 75 MPa
Polishability	Smooth and shiny surface
Freedom from porosity	Absence

4. USES AND APPLICATIONS

Portux PMMA discs from New Stetic are intended for their use in CAD/CAM technology for dental application. They have a standard format in accordance with the specifications of commercial CAM machines.

The PMMA discs are directly used by the dentist or dental technician for the manufacturing of dental structures with CAD CAM technology. The variants of the product include the following applications:

- Provisional anterior and posterior crowns & bridges.
- Implant supported prosthetics.
- Partial, complete and hybrid denture prosthetics (base and teeth).
- Removable appliances (splint).
- Copy of dental metallic structures by casting method.

The product has excellent properties for long term provisional use.



Creation Date		Prepared by:	Reviewed by:	
2021-07-15		Product Design and Development Coordinator	Technical Coordinator of MD	
Class	Page	Approved by:	Update	Version
C	2 of 4	Technical Director of Medical Devices	2022-03-19	01

REFERENCE DOCUMENT: DPDDPR-019

UPDATE: 2021-11-12

VERSION: 02

TECHNICAL DATA SHEET PORTUX PMMA DISCS FOR CAD/CAM DPFTPT-101

5. QUALITY ASSURANCE OF THE PRODUCT

The product quality is guaranteed through the application of standardized analytical methodologies validated by means of using calibrated equipment. Based on this, the Quality Control Laboratory assures quality of the product from its raw materials up to the finished product.

6. INSTRUCTIONS FOR USE

- The disc format must fit the configuration of the CAM machine used.
- Set the disc in the milling machine according to the instructions given for the equipment.
- If a multi-layer disc is used, place it properly in such a manner that it has a correct color profile in the machined piece.
- Avoid overheating of the material during the machining.
- After the machining, take out the disc from the equipment and remove the piece obtained.
- Perform the finishing process in accordance with the specifications of the job made.

7. COMMERCIAL PRESENTATIONS

Portux PMMA CAD/CAM discs are available in the following colors and dimensions per unit. Each disc is packed in an individual card box.

7.1 Colors

Type of disc	Colors
Single-color	A1, A2, A3, A3.5, BL, B1, B2, B3, C1, C2, D2, D3.
Multi-layer	A1, A2, A3, A3.5, B1, B2, BL, C1, C2, D2.
Castable	Transparent and red.
Denture Base	Original

7.2 Dimensions:



Creation Date		Prepared by:		Reviewed by:	
2021-07-15		Product Design and Development Coordinator		Technical Coordinator of MD	
Class	Page	Approved by:		Update	Version
C	3 of 4	Technical Director of Medical Devices		2022-03-19	01

REFERENCE DOCUMENT: DPDDPR-019

UPDATE: 2021-11-12

VERSION: 02



Address: Cra. 53 N° 50-09
Guarne (Antioquia) COLOMBIA.
Telephones: (57-60-4) 550 00 00 - 403 87 60
Fax: (57-60-4) 551 31 34
infocolombia@newstetic.com

**TECHNICAL DATA SHEET
PORTUX PMMA DISCS FOR CAD/CAM
DPFTPT-101**

8. EXPIRATION DATE

Ten (10) years after its manufacturing date.

9. STORAGE AND PRESERVATION CONDITIONS

Keep the product in a fresh and dry place at a temperature ≤ 30 °C. Avoid heat sources and direct sunlight. Do not store with incompatible chemical substances such as organic solvents.

Creation Date		Prepared by:	Reviewed by:	
2021-07-15		Product Design and Development Coordinator	Technical Coordinator of MD	
Class	Page	Approved by:	Update	Version
C	4 of 4	Technical Director of Medical Devices	2022-03-19	01

REFERENCE DOCUMENT: DPDDPR-019

UPDATE: 2021-11-12

VERSION: 02