

1. Indication

printodont[®] GR-22 flex from pro3dure is intended for the production of orthodontic and dental objects (mouthguards, nightguards, snoring appliances and splints).

2. Contraindication

printodont[®] GR-22 flex is contraindicated ...

1. ... if a patient is known to be allergic to any of the ingredients.
2. ... for denture bases.
3. ... for every application that is not part of the indication (see above).

3. Patient Target Group

Persons being treated in the context of a dental procedure.

4. Intended Users

Dentist, dental technician

5. Requirements

Software – information available from:

exocad GmbH - Julius-Reiber-Straße 37, 64293 Darmstadt, Germany

Hardware (3D Printing) – information available from:

ASIGA - 2/19-21 Bourke Road, Alexandria, NSW 2015, Australia

Hardware (Post Curing) – information available from:

pro3dure medical (CD-1, CD-2) - Am Burgberg 13, D-58642 Iserlohn, Germany

Additional specifications on www.pro3dure.com.

6. Material

printodont[®] GR-22 flex consists of functional (meth)acrylic resins, initiators, dyes and stabilisers.

7. Geometric presetting

Minimum wall thickness: 1.5 mm

8. Material parameters

Radiation penetration depth controllable by exposure time
50 µm
100 µm

9. Manufacturing process (fig. 1–10)

1. Prepare data (CAD & build preparation).
2. Choose process parameters (build style, etc.).
3. Transfer prepared data to 3D printing device.
4. Prepare 3D printing – shake bottle.
5. Fill resin tank of 3D printing device.
6. Build the parts.
7. Clean parts (with IPA ≥ 97 % or equivalent cleaning agent) approx. 10 min. in an ultrasonic bath or equivalent device – precleaning recommended.
8. Dry parts, until there are no residues of IPA or equivalent cleaning agent.
9. Post curing (2 x 5 min. / wall thickness > 2.5 mm: 2 x 10 min.): inert atmosphere recommended (use adequate light curing device).
10. Finish parts.

10. Finishing processes

Polishing

11. Notice

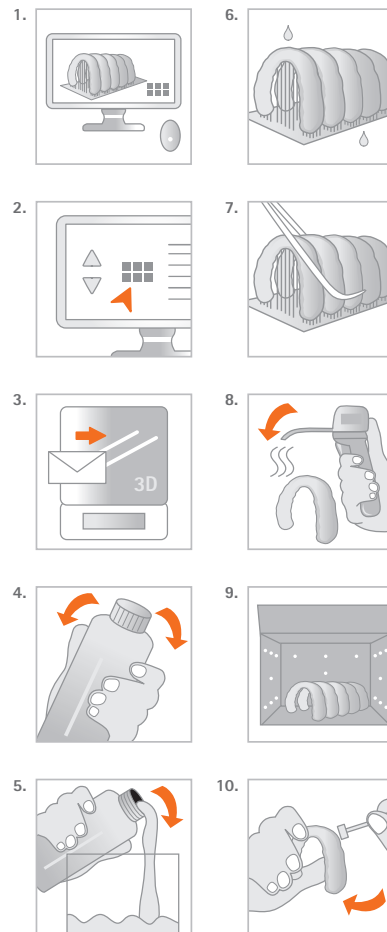
Please follow the instructions provided by the software manufacturer in terms of parameter settings and design recommendations. Please follow the instructions provided by the hardware manufacturer in terms of parameter settings/printing & post curing recommendations. To avoid detrimental effects on material quality do not expose the liquid material to irradiation under any circumstances. Deviations from the described manufacturing processes or storing conditions may lead to different mechanical and optical properties of the material. According to the EU Medical Devices Regulation, users/patients are obliged to report serious events with a medical device to the manufacturer and to the competent authority of the country in which they occurred. **Caution:** The lot number and the best before date are indicated on each packaging. In case of claims please always indicate the lot number of the product. Do not use the product after expiry of the best before date. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER/doctor. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see information on this label). If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container according to official regulations.

12. Hazard statements

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.

Generative Resin
GR-22 flex

Instructions for use · Gebrauchsanweisung
Mode d'emploi · Instrucciones de uso
Istruzioni per l'uso



Physical properties*/
Physikalische Eigenschaften*/
Propriétés physiques*/
Propiedades físicas*/
Proprietà fisiche*:

Ordering information/
Bestellinformationen/
Informations de commande/
Información sobre pedidos/
Informazioni sull'ordine:

printodont[®] GR-22 flex

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■ Shore hardness D/
Shore-Härte D/
Dureté Shore D/
Durezza Shore D
(ISO 48-4):
≥ 65**

1 kg:
λ ≤ 405 nm

clear-transparent/
klar-transparent/
incoloro-transparente/
incoloro-transparente/
incoloro-transparente
REF: D1001701

light blue/
hellblau/
bleu clair/
azul claro/
azzurro
REF: D1001703

■ Ultimate flexural strength/
Biegefestigkeit/
Résistance à la flexion/
Fuerza flexible/
Resistenza alla flessione
MPa (ISO 20795-2):
≥ 2**

500 g:
λ ≤ 405 nm

clear-transparent/
klar-transparent/
incoloro-transparente/
incoloro-transparente/
incoloro-transparente
REF: D1001702

light blue/
hellblau/
bleu clair/
azul claro/
azzurro
REF: D1001704

■ Bending module/
Biegemodul/
Module de pliage/
Módulo de flexión/
Modulo di piegatura
MPa (ISO 20795-2):
≥ 100**

■ Water absorption/
Wasseraufnahme/
Absorption de l'eau/
Absorción de agua/
Assorbimento dell'acqua
µg/mm³ (ISO 20795-2):
≤ 32

■ Solubility/
Löslichkeit/
Solubilité/
Solubilidad/
Solubilità
µg/mm³ (ISO 20795-2):
≤ 5

■ Impact strength
(IZOD notched, ASTM D256)/
Schlagfestigkeit
(IZOD notched, ASTM D256)/
Résistance aux chocs
(IZOD entaille, ASTM D256)/
Resistencia al impacto
(IZOD con muescas, ASTM D256)/
Resistenza agli urti
(IZOD con intaglio, ASTM D256):
≥ 50 J/m**

■ Elongation at break (ISO 37)/
Reißdehnung (ISO 37)/
Allongement à la rupture (ISO 37)/
Alargamiento a la rotura (ISO 37)/
Allungamento a rottura (ISO 37):
≥ 40%**

* These data come from measurements of a representative sample that was determined as part of our quality assurance. / * Diese Daten stammen aus Messungen einer repräsentativen Probe, die im Rahmen unserer Qualitätssicherung ermittelt wurden. / * Ces données proviennent des mesures d'un représentant échantillon qui a été déterminé dans le cadre de notre assurance qualité. / * Estos datos provienen de mediciones de una representante muestra que se determinó como parte de nuestra garantía de calidad. / * Questi dati provengono dalle misurazioni di un rappresentante campione che è stato determinato nell'ambito della nostra garanzia di qualità.

** According to internal design and requirements specifications / ** Gemäß internen Design- und Anforderungsspezifikationen / ** Selon la conception interne et les spécifications des exigences / ** Según especificaciones de diseño y requisitos internos / ** Secondo la progettazione interna e le specifiche dei requisiti

This side up. Diese Seite nach oben. Ce côté vers le haut. Este lado hacia arriba. Questo lato in su.	Temperature limit 64 ± 1°C Limite de température Limite de temperatura Limite di temperatura	CE mark CE Zeichen CE marca CE marchio	Warning Achtung Attention Attenzione	Do not use if package is damaged. Nicht verwenden, wenn das Paket beschädigt ist. Ne pas utiliser si l'emballage est endommagé. No lo use si el paquete está dañado. Non usare se il pacchetto è danneggiato.	Consult instructions for use. Gebrauchsanweisung beachten. Consulter le mode d'emploi. Consultar instrucciones de uso. Consultare le istruzioni per l'uso.	Keep away from sunlight. Von Sonnenlicht fernhalten. Éloigner du soleil. Mantener alejado de la luz solar. Tenere lontano dalla luce del sole.	Rx only QTY: 1EA	Medical Device Medizinprodukt Dispositif médical Producto sanitario Dispositivo medico	Use by date Haltbarkeitsdatum Utiliser par date Utilizar por fecha Usare entro la data	Catalogue number Katalognummer Número de catalogo Número de catalogo Numero di catalogo	Lot number Chargennummer Número de lote Número de lote Numero di lotto	Date of manufacture Herstellungsdatum Date de fabrication Fecha de manufactura Data di produzione

Manufacturer:
pro3dure medical GmbH
Am Burgberg 13 · 58642 Iserlohn, Germany
Phone: +49 (0)2374 920050-0 · Fax +49 (0)2374 920050-50

Distributor (US):
pro3dure medical LLC
9825 Valley View Road · Eden Prairie, MN 55344
Phone: 952-426-1928 · Fax: 952-681-7515
info@pro3dure.com · www.pro3dure.com · Made in Germany

