

Hand Pour Resin PR-1

Instructions

pro3dure
medical

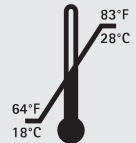
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Product description:
Hand pouring
resin for production
of earpieces

Technical data:

- Colour: various
- Density: ca. 1.1 g/ml
- Viscosity: ca. 0,7 Pa s
- Post cured material: (depends on postcuring unit)
Elastic modulus: ca. 1700 MPa
Flexural strength: ca. 90 MPa
Elongation at break: ca. 10 %
Hardness: ca. 80 Shore D
- Storage:



Ordering information:

250 g

clear-transparent
item no.: A1000500

reddish-transparent
item no.: A1000503

red-transparent
item no.: A1000502

blue-transparent
item no.: A1000504

beige-opaque
item no.: A1000550

orange-translucent
item no.: A1000534

yellow-translucent
item no.: A1000529

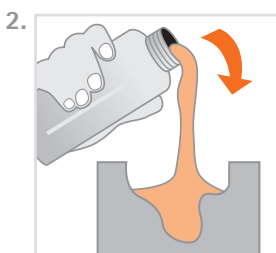
black-opaque
item no.: A1000770

These data result from measurements of a representative sample, which were determined within the scope of our quality assurance.



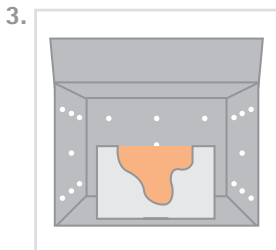
1. Product description

pro3dure's hand pouring resin **PR-1** is a UV-curing resin for the production of earmoulds and hearing aid shells based on a traditional UV curing process of moulding hearing aid shells and earmoulds. By integrating the one part pro3dure **PR-1** moulding compound with the pro3dure **CD-1** or **CD-2** Curing equipment the shell and earmould process is made easier. The **PR-1** is successfully tested for biocompatibility, certainly meets all mechanical and application demands.



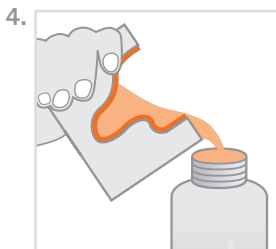
2. Processing

- **PR-1** bottles of custom colors should be well shaken before use (fig 1).
- Make sure that **PR-1** moulding compound is at room temperature.
- Carefully pour **PR-1** into the colloid or silicone investment (fig 2).
- The filled investment is covered and placed in the pro3dure **CD-1** or **CD-2** curing system for initial cure (fig 3).
- When exposed to light the outer portion of the shell is formed, creating a uniformed wall of the desired thickness. Typical exposure time are 5 to 30 seconds, depending on the color of the moulding compound.
- The remaining uncured moulding compound is poured out of the investment. The hollow shell or earmould is then placed in the pro3dure **CD-1** or **CD-2** curing unit with gas (N₂) for the final cure (fig 4).



3. Important

- To avoid detrimental effects on material quality do not expose the liquid material to irradiation under any circumstances.
- Deviations from the described manufacturing process may lead to different mechanical and optical properties of the **PR-1** material.
- Ensure personal protective gear during processing.
Caution: Polymerised resins are chemically resistant avoid stains on clothing!
- Avoid any contact with skin and eyes. In case of accidental contact, rinse with adequate running water, consulting a doctor if necessary.
- The lot number and the best before date are indicated on each **PR-1** 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.



Safety advice

pro3dure medical GmbH is not liable for any damages caused by improper application of the material. To be used by trained specialist personnel for the purpose indicated only.

PR-1

idea to product.

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