Case Study

# Otoplastics



# **Otoplastics**

## Application: Hearing Aids / Hearing Protection

Otoplastics are individually adapted ear fitting pieces, which serve on the one hand as a hearing aids and on the other hand as hearing protection. Individual earmolds ensure maximum wearing comfort and guarantee ideal cushioning.

#### Requirements ......

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Material: Medical Device Class IIa Production Method: quick and easy production

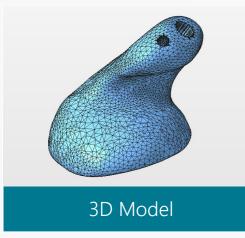
### **Recommended Resins**

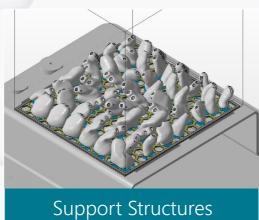
Dreve FotoTec / Detax Luxaprint / Medicalprint

# **Digital Workflow**

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Preparation: Prior to the printing process, the otoplastics have to be prepared for printing. A 3D printing software helps to place the model on the building platform. Also, support structures have to be added.





**Printing Process:** In the next step, the prepared files are being processed by the printer. In this specific case the otoplastics were 3D printed under the following conditions:

3D printer:	SolFlex 65
Layer thickness:	100 µm
Printing time:	1:50 min.
Resin:	FotoTec D
Number of printed objects:	57
Resin use:	31 g
Total resin use (incl. support structures):	43 g
Total resin costs:	€ 14.15

Depending on the size of the 3D printer's building platform, a different number of otoplastics can be 3D printed.

Number of otoplastics that fit on the building platform:

SolFlex 650: 57 **SolFlex 363:** 35 **SolFlex 350:** 28 SolFlex 170: 20 **SolFlex 150:** 12

Post-Processing: The 3D printed otoplastics are post-cured in a UV light box, cleaned and the support structures have to be removed.



DLP A beige