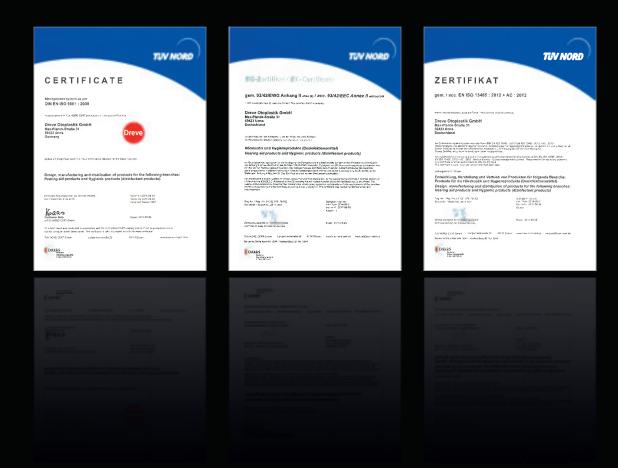


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Certified quality.



The earmold: Unique as a fingerprint

The earmold serves as substancial connection between the human ear and the hearing device. Mostly underestimated it is a small high tech gadget which helps to ensure the best possible hearing aid provision due to greatest wearing comfort and perfect fit. Therefore it represents a key component of the hearing aid fitting. Dreve manufactures every earmold individually and with the highest quality standards.

Our earmold portfolio

Within this catalog we present you our range of earmolds and our laboratory services.

Wether **Hearing** earmolds for hearing aid systems or **Protection & Comfort** earmolds – suitable for various noise levels, manufactured in different manufacturing processes our earmold collection offers various forms, materials and colors, entirely customized for your needs and the needs of your customers. Aesthetics and wearing comfort are two important attributes for us.

Digital manufacturing at Dreve.

	Stereolithography	DLP° Digital Light Process	Milling process	
•	Scanning of ear impression (3D Scanner)	Scanning of ear impression (3D Scanner)	Scanning of ear impression (3D Scanner)	
•	Construction by using software	Construction by using software	Construction by using software	
•	Additive manufacturing by using laser exposure	Additive manufacturing by using image projection	Subtractive manufacturing	
	Cleaning	Cleaning	by using milling technology	
	Postcuring	Postcuring		
	Finishing	Finishing	Finishing	

Scan and view videos





Stereolithography









Milling process

Dreve digital: Creation of a Dreve earmold.

As a certified manufacturer of medical devices we strive for a constant optimization of our processes according to our motto "Innovation aus Tradition" which means "Innovation based on tradition". We strive for offering innovative quality products with a personal and courteous service to you. The implementation of CAD/CAM technologies for earmold manufacturing involved a fundamental change of technology for us which we successfully managed. Nowadays we mostly use latest production technologies: Dreve earmolds are manufactured digitally and automated for example by means of 3D printing or milling.

We are proud to be one of the leading laboratories of the industry which has grown to an international earmold manufacturer with production facilities in Germany, Russia, Singapore and the United States.





Hearing: Earmolds for hearing aid systems.

The precise manufacturing and the selection of a suitable material is significant for the acceptance of the hearing aid. In addition to the acoustic requirements the selection of the correct material depends on the condition of the ear tissue and the subjective feeling of the customer. For maximum flexibility we offer three different materials for the individual customization and fitting of earmolds: FotoTec*, VarioTherm* and Biopor* AB.



Our biocompatible materials.

Hard, flexible or soft.

FotoTec[®]

Our premium material FotoTec® is a light curing resin especially formulated for the production of high-quality hard earmolds. Due to the automated production process we achieve a consistently high quality level of the earmolds. FotoTec® earmolds are biocompatible, they guarantee a high fitting accuracy and impress with their color brilliance.

VarioTherm®

Due to the thermal effect the earmold is almost hard at room temperature and gets soft and flexible at body temperature. The material is tear resistant, tough and characterized by an eminent resilience. VarioTherm® earmolds are manufactured automatically in a digital process so that reproducibility is given.

Biopor® AB

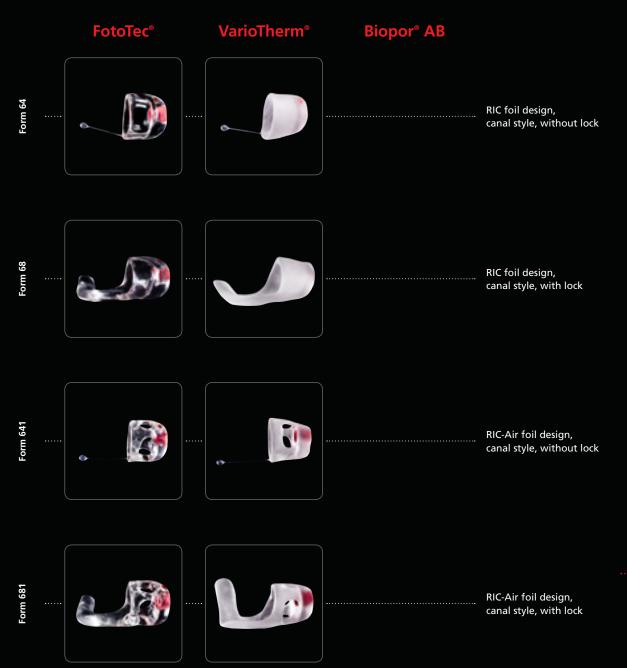
Biopor[®] is our biocompatible and addition-vulcanising silicone for the manufacturing of soft earmolds. It is characterized by tear resistance as well as permanent elasticity and assures a high wearing comfort.

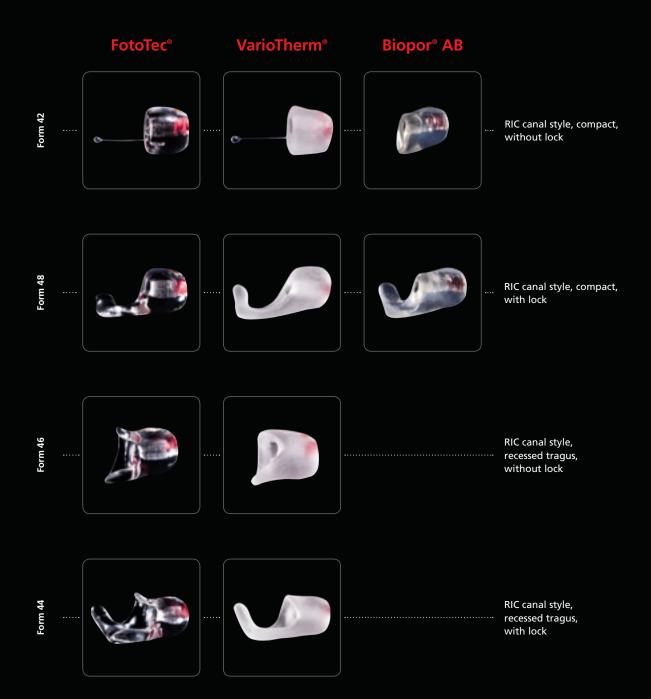
RIC: Earmolds for hearing systems with receiver in canal.

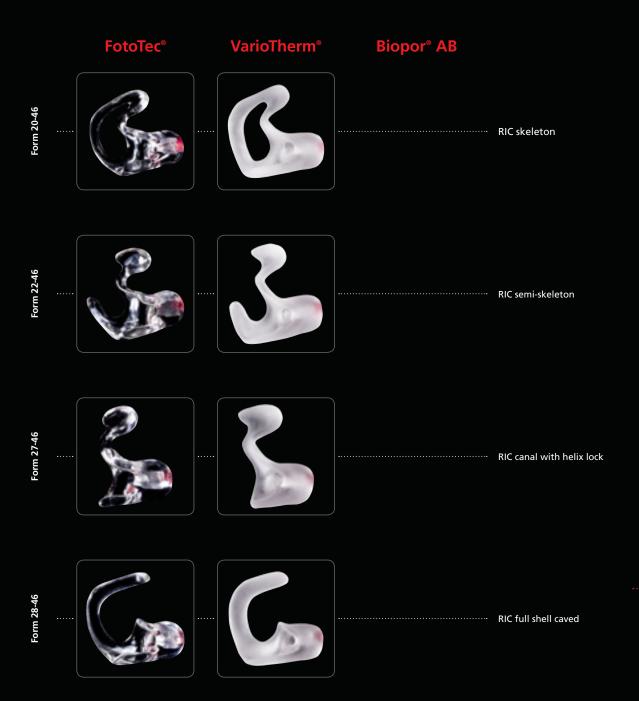
The development of the hearing aid market and the experiences from the last years have shown that RIC hearing aid systems have been successfully established. For these modern receiver systems we offer innovative earmold solutions for all hearing-aid manufacturers. Our earmolds meet highest quality standards regarding acoustic benefits and cosmetic demands.

Recommend the use of RIC earmolds to your customers in order to ensure the best possible hearing aid fitting and to suppress resonances, distortions or acoustic feedbacks. Moreover, RIC earmolds allow an ideal placement of the receiver in the ear canal and protect from losing the valuable hearing device.

Our VarioTherm® RIC earmolds are available with mat surface.







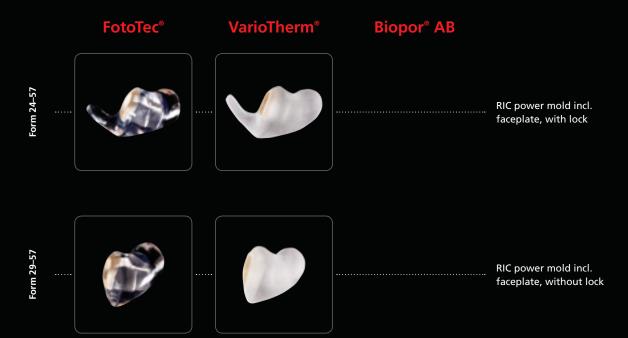
RIC Power supply.



Front view on power supply form 29-57

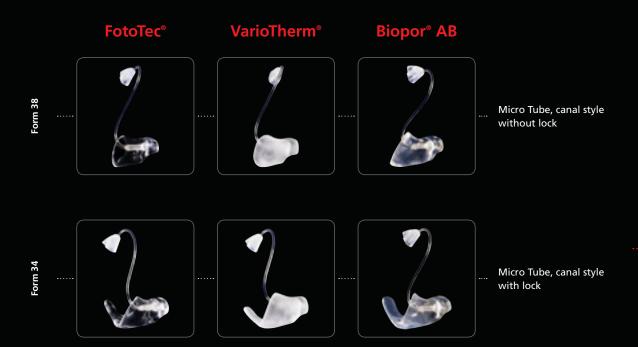
- Only for special receiver:Oticon-mini-P

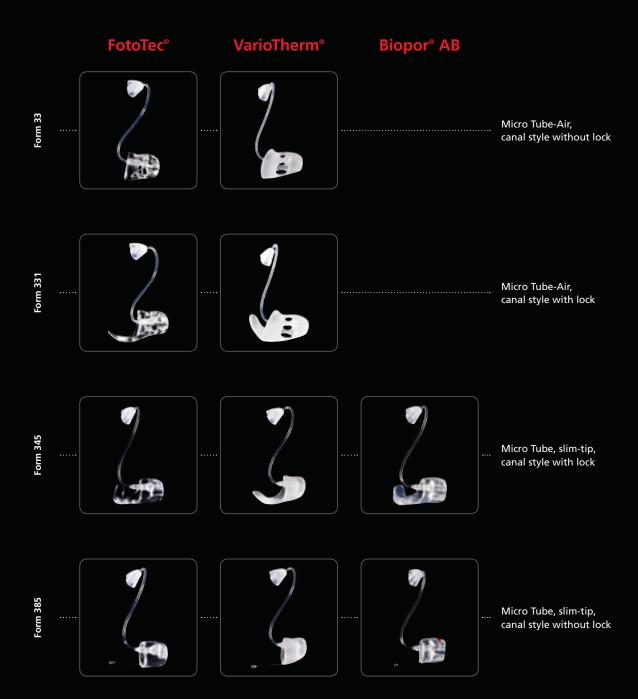
 - Bernafon nanorite P
 - Phonak/Unitron xP (1st Generation)

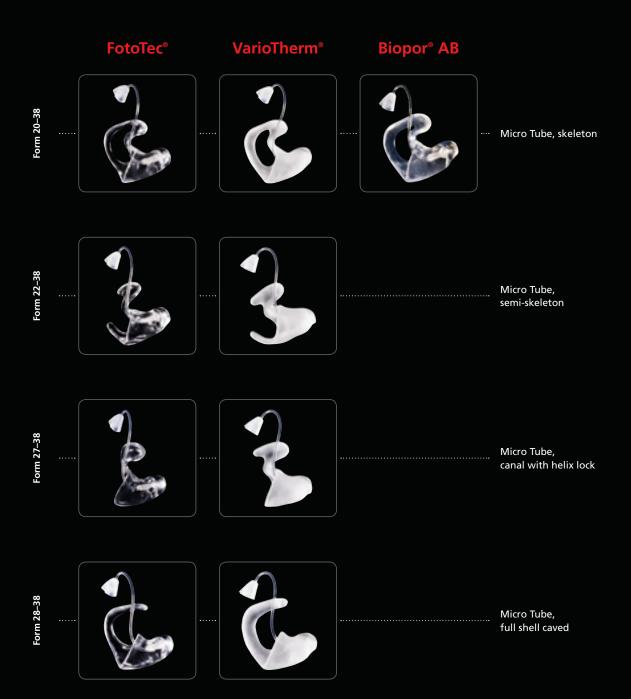


Earmolds for micro tubing systems.

Micro tubing hearing aid systems offer the advantage that almost all ear canals can be supplied in a cosmetically appealing way. Customers who receive their first hearing aid or with minor hearing losses show very often a high level of acceptance for these kind of hearing systems.

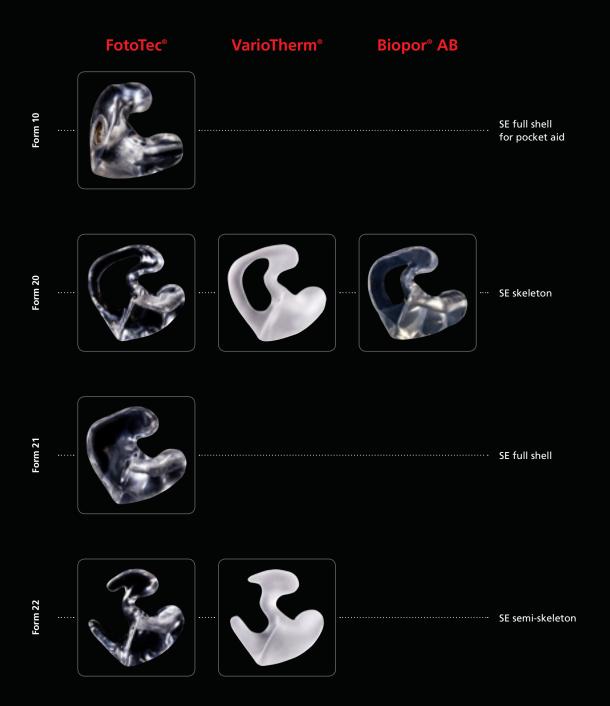


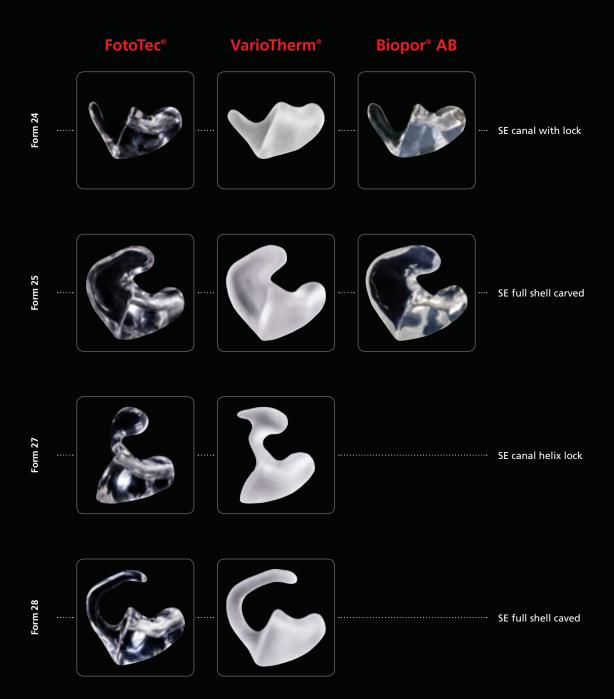


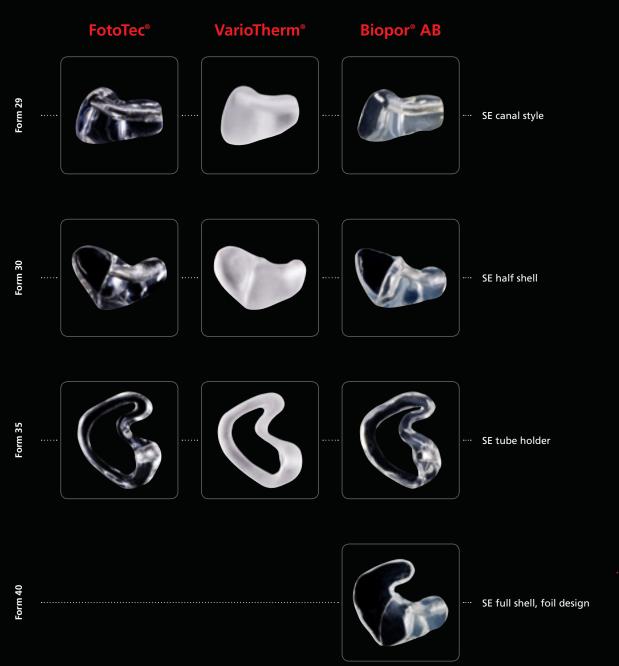


Earmolds for hearing aid systems with standard tubing.

The standard tubing hearing aid is a classic in the industry. It combines the advantages of an easy handling with innovative technologies. The earmold is an important part of these hearing aids and offers the possibility to fix the hearing tube. Standard tubing hearing systems are recommended for high hearing losses.







Available colors

Colorcode	Color		FotoTec [®]	VarioTherm ^e	Biopor® AB 25 Shore A	Biopor [®] AB 40 Shore A	Biopor® AB 70 Shore A
0	clear transparent		•	•	•	•	•
1	reddish transparent		•	•	•	•	•
21	blue transparent					•	
52	black opaque					•	•
22	blue opaque					•	•
42	green opaque					•	•
14	orange opaque					•	•
19	purple opaque					•	•
12	red opaque					•	•
62	white opaque					•	•
32	yellow opaque					•	•
26	blue fluorescent					•	
46	green fluorescent					•	
18	orange fluorescent					•	
17	pink fluorescent					•	
16	red fluorescent					•	
36	yellow fluorescent					•	
113	black metallic					•	
106	blue metallic					•	
107	green metallic					•	
111	orange metallic	•				•	
109	pink metallic					•	
108	red metallic					•	
105	silver metallic					•	
101	turquoise metallic					•	

Extras. Finishing. Accessories.



Glued in tubing



Arc tubing connection



Tubing with anchor



Libby Horn



NanoScreen[™] Lacquer



Standard UV Lacquer



NanoScreen™ Soft Lacquer



Lacquer B



VarioTherm® Lacquer



Visible surface matted

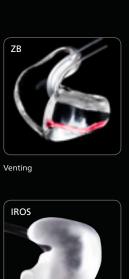


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Colormix

See classifications on p. 27 25



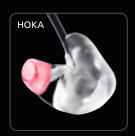




Power Vent



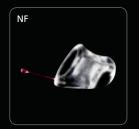




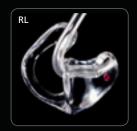
Iros canal

Contour

Hollow canal







Nylon thread

Logo/Serial number

Right/Left marking





Fixing by mechanical retention

Glueing of micro tubing

Overview Accessories/Materials

Kürzel	Name	FotoTec®	VarioTherm [®]	Biopor® AB	suitable for
CON	Contour		•		SE
FR	Fixing by mechanical retention		•		MS
НОКА	Hollow canal		•		MS, SE
IROS	Iros canal	•	•	•	SE
K	Glueing of micro tubing without retention by the acoustician	•	•	•	MS
L	Lacquer B			•	RIC, MS, SE
LH	Libby Horn	•	•	•	SE
М	Matted	•	•	•	RIC, MS, SE
MF	Colormix			•	SE
MI	Visible surface matted		•	•	RIC (except VT), MS, SE
NF	Nylon thread		•		RIC, MS, SE
NL	NanoScreen [™] Lacquer				RIC, MS, SE
NLS	NanoScreen [™] Soft Lacquer				RIC, MS, SE
OG	Open canal		•		RIC, MS, SE
POV	Power Vent				SE
RL	Right/Left marking		•		RIC, MS, SE
SNR	Logo/Serial number		•		RIC, MS, SE
U	Arc tubing connection	•	•		SE
VG	Standard UV Lacquer	•			RIC, MS, SE
VL	VarioTherm® Lacquer		•		MS, SE
Υ	Tubing with anchor				SE
ZB	Venting		•		RIC, MS, SE
ZE	Glued in tubing		•		SE

RIC – Receiver in Cana

MS - Micro tubin

SE - Secret Ear (Standard tubing earmolds



Protection & Comfort Hearing protection earmolds.

The human ear has an enormous capability. However, it is exposed to high noise levels in everyday life. Therefore Dreve provides professional and high quality hearing protection products.

Whether at industry workplaces or for professional musicians, for shooting, swimming, sleeping or for travelling – Dreve Protection & Comfort offers individual hearing protection with different filter systems designed for various applications.

for industrial applications.



DLO® Music for music fans.



during flights. DLO[®] SkyComfort

Certified protection DLO® (Dreve hearing protection earmold).

Dreve hearing protection earmolds DLO® are certified and type approved as Personal Protective Equipment (PPE) according to Annex II of the directive 89/686/EEC and meet the official requirements for industrial applications. Manufacturing takes place at our laboratory which is certified according to ISO 9001, ISO 13485 and directive 93/42/EEC.





DLO® Industry

Customized hearing protection for industrial applications.

Certified as PPE we offer individual and professional hearing protection for the industry and workplaces. Our professional filter systems have a non-linear attenuation which allows the attenuation of specific frequencies.

Available hearing protection earmolds

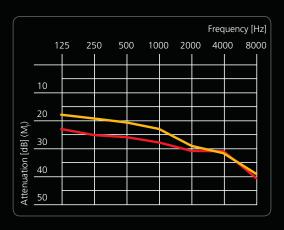


Available colors

Colorcode	Color	FotoTec°	Biopor [®] AB 40 Shore A
0	clear transparent		
1	reddish transparent	•	
21	blue transparent		
52	black opaque		
22	blue opaque		
42	green opaque		
14	orange opaque		
19	purple opaque		
12	red opaque		•
62	white opaque		
32	yellow opaque		•
26	blue fluorescent		•
46	green fluorescent		•
18	orange fluorescent		•
17	pink fluorescent		•
16	red fluorescent		•
36	yellow fluorescent		•
113	black metallic		
106	blue metallic		
107	green metallic		•
111	orange metallic		•
109	pink metallic		
108	red metallic		
105	silver metallic		
101	turquoise metallic		

DLO[®] Industry

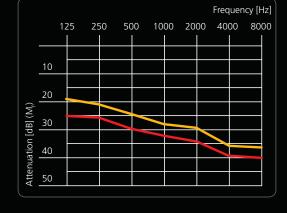
Attenuation values





SNR: 27, H: 27, M: 25, L: 23

DI filter yellow SNR: 24, H: 26, M: 20, L: 17



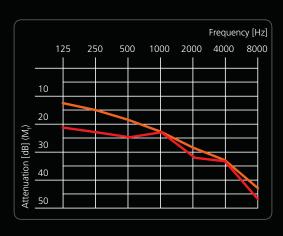
DLO® acrylic

DI filter red

SNR: 31, H: 32, M: 28, L: 24

DI filter yellow

SNR: 26, H: 27, M: 23, L: 19



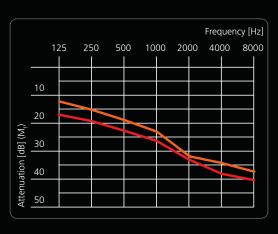
DLO® silicone

DLXpro H

SNR: 26, H: 28, M: 23, L: 21

DLXpro M

SNR: 22, H: 26, M: 19, L: 13



DLO® acrylic

DLXpro H

SNR: 25, H: 29, M: 22, L: 17

DLXpro IVI

SNR: 22, H: 26, M: 19, L: 14





DLO® Music

Customized hearing protection for music fans.

Certified as PPE we offer customized hearing protection for musicians and music fans. Our DLO® with DM filters stand for a linear attenuation and provide a tuned flat attenuation response through all frequencies. The filters reduce the volume while they keep the natural sound quality and furthermore achieve a good speech intelligibility.

Available hearing protection earmolds



DM filter black SNR: 23 H 21, M 22, L 23





31





DM filter white **SNR 18** H 15, M 18, L 19



SNR: 16 H 14, M 14, L 14



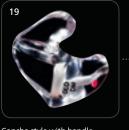
SNR: 12 H 12, M 9, L 8

Concha style with handle

Canal style with handle

Canal style without handle

DLO[®] acrylic with DM filter











DM filter white **SNR 19** H 17, M 20, L 20

DM filter black



SNR: 18 H 18, M 15, L 13



SNR: 12 H 12, M 9, L 8

Concha style with handle

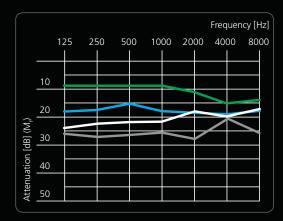
Canal style with handle

Canal style without handle

Available colors

Color- code	Color		FotoTec®	Biopor® AB 40 Shore A
0	clear transparent		•	•
1	reddish transparent		•	•
21	blue transparent			•
52	black opaque	0		•
22	blue opaque			•
42	green opaque	•		•
14	orange opaque			•
19	purple opaque			•
12	red opaque			•
62	white opaque			•
32	yellow opaque			•
26	blue fluorescent			•
46	green fluorescent			•
18	orange fluorescent			•
17	pink fluorescent			•
16	red fluorescent			•
36	yellow fluorescent			•
113	black metallic			•
106	blue metallic			•
107	green metallic			•
111	orange metallic			•
109	pink metallic			•
108	red metallic			•
105	silver metallic			•
101	turquoise metallic			•

Attenuation values



DLO® silicone

DM filter black

SNR: 23, H: 21, M: 22, L: 23

DM filter white

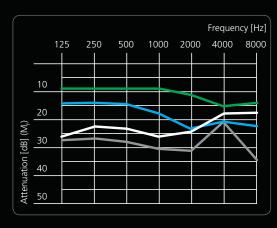
SNR: 18, H: 15, M: 18, L: 19

OM filter blue

SNR: 16, H: 14, M: 14, L: 14

DM filter green (no PPE)

SNR: 12, H: 12, M: 9, L: 8



DLO® acrylic

DM filter black

SNR: 24, H: 22, M: 24, L: 24

DM filter white

SNR: 19, H: 17, M: 20, L: 20

DM filter blue

SNR: 18, H: 19, M: 15, L: 13

DM filter green (no PPE

SNR: 12, H: 12, M: 9, L: 8

2 in 1: DM + DS 11 In-Ear Monitoring

- One-way system
- High quality sound
- Customized form grants excellent wearing comfort and helps to prevent the loss of the earmold
- Well-balanced sound reproduction with natural bass
- Attenuation of background noises due to customized earmolds
- Compatible with In-Ear Monitoring system DS 11
- 3.5 mm jack plug therefore suited for smartphones and MP3 players



Available for various earphone systems, but not in combination with DM filters (List of earphones on demand)



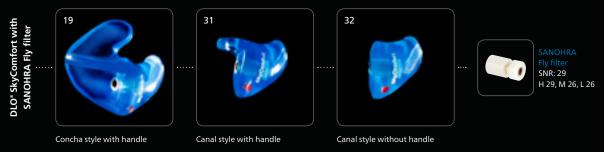


DLO® SkyComfort

First Class for ears: Customized hearing protection during flights.

Boarding completed: The personal hearing protection with a special pressure-balancing filter reduces disturbing noises on the plane like turbine or engine sounds and supports actively the pressure compensation of the ears. Ideal for frequent travelers and people who want to have a most comfortable flight. The individual SkyComfort earmolds are also certified as PPE.

Available hearing protection earmolds

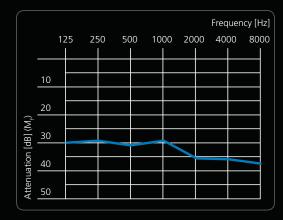


Available colors

Colorcode	Color	Biopor® AB 40 Shore A
21	blue transparent	•

Exclusively available in SkyBlue!

Attenuation values



SkyComfort with SANOHRA Fly filter

SNR: 29, H: 29, M: 26, L: 26



Extras on pp. 52–53 41

DCO[®] OtoSwim[®]

water protection.



DCO[®] ShotKiller[®]

against impulse noise.



DCO® ComfortNight

for a silent and relaxing sleep.

Individual comfort DCO[®] (Dreve Comfort Earmold).

Not only at work but also in our leisure time we are exposed to different noise levels which can lead to hearing damages. Therefore Dreve offers a wide range of suitable hearing protection earmolds. We strive for effective protection with a maximum wearing comfort to prevent from hearing losses in the long term.

The DCO°-line includes OtoSwim°, our water protection for swimming, ComfortNight, for restful sleep and ShotKiller° the earmold especially against impulse noises.

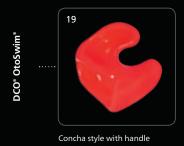




DCO® OtoSwim®

Customized swimming protection.

When swimming, showering or having a bath, water could get easily into the auditory canal and might lead to infections. Therefore it is important to protect sensitive ears. OtoSwim® is the reliable Dreve water protection for ears made of Biopor® AB. Your customers will definitively have more fun in the wet zone. OtoSwim® can be ordered in two different materials: Our floatable material Biopor® AB light 25 Shore or Biopor® AB fluorescent 40 Shore in flashy signal colors.



Available colors

Colorcode	Color	Biopor® AB light 25 Shore A	Biopor [®] AB fluoreszent 40 Shore A
0	clear transparent	•	
1	reddish transparent	•	
25	dark blue opaque	•	
10	dark red opaque	•	
24	light blue opaque	•	
43	neon green opaque	•	
93	neon orange opaque	•	
13	neon pink opaque	•	
33	neon yellow opaque	•	
26	blue fluorescent		•
46	green fluorescent		•
18	orange fluorescent		•
17	pink fluorescent		•
16	red fluorescent		•
36	yellow fluorescent		•

Extras on pp. 52–53 45





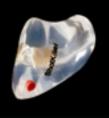
DCO® ShotKiller®

Customized hearing protection for impulse noise.

ShotKiller® hearing protection earmolds minimize impulse noise which occurs during shooting. Hence, you can protect your ears ideally for example during your shooting trainings.

Advantages

- High wearing comfort
- Optimal attenuation of impulse noise
- Different filter systems
- Wide color range
- Easy to clean (e. g. with OtoVita®)

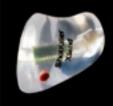


1-filter-system

ShotKiller® as 1-filter system can be used ideally for outdoor applications or in leisure time e.g. for hunting.

Peak exposure level	dB reduction ShotKiller®	Allowable impulses per day
132 dB	19.7	588
150 dB	29.5	89
168 dB	30.1	1

Impulse noise attenuation (IPIL in dB) for 1-filter-system Technical data according to ANSI S12.42-2010



2-filter-system

The 2-filter-system combines a ShotKiller® filter with an additional Xtend-filter. The Xtend-filter is recommended when a higher attenuation of impulse noise is necessary; for example for pyrotechnics or shooting trainings.

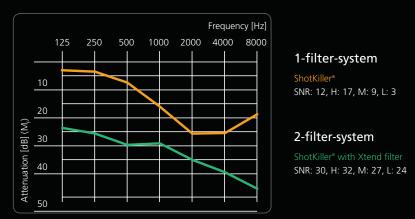
Peak exposure level	dB reduction ShotKiller® Xtend	Allowable impulses per day	
132 dB	34.5	> 10.000	
150 dB	39.5	891	
168 dB	42.8	30	

Impulse noise attenuation (IPIL in dB) for 2-filter-system Technical data according to ANSI \$12.42-2010

Available hearing protection earmolds



Continuous noise attenuation (in dB)



Available colors

Colorcode	Color		Biopor ^o AB 40 Shore A
0	clear transparent		•
1	reddish transparent	•	•
21	blue transparent		•
52	black opaque		•
22	blue opaque		•
42	green opaque		•
14	orange opaque		•
19	purple opaque		•
12	red opaque		•
62	white opaque		•
32	yellow opaque		•
26	blue fluorescent		•
46	green fluorescent		•
18	orange fluorescent		•
17	pink fluorescent		•
16	red fluorescent		•
36	yellow fluorescent		•
113	black metallic		•
106	blue metallic		•
107	green metallic		•
111	orange metallic		
109	pink metallic		•
108	red metallic		•
105	silver metallic		•
101	turquoise metallic		•





DCO® ComfortNight

Customized hearing protection for a silent and relaxing sleep.

For many people a healthy and restful sleep is only wishful thinking. There are various reasons for sleep disturbances and very often external influences like noise are playing a major role.

A dream...

With our customized ComfortNight hearing protection earmolds your customers can have a peaceful sleep again and start the next day perfectly relaxed.



ComfortNight, compact (only in 25 Shore A)



ComfortNight, caved (only in 70 Shore A)

Available colors

		Biopor® AB light	Biopor® AB	Biopor® AB
Colorcode	Color	25 Shore A	25 Shore A	70 Shore A
0	clear transparent	•	•	•
1	reddish transparent	•	•	•
52	black opaque			•
22	blue opaque			•
25	dark blue opaque	•		
10	dark red opaque	•		
42	green opaque			•
24	light blue opaque	•		
14	orange opaque			•
19	purple opaque			•
12	red opaque			•
62	white opaque			•
32	yellow opaque			•
43	neon green opaque	•		
93	neon orange opaque	•		
13	neon pink opaque	•		
33	neon yellow opaque	•		

Extras on pp. 52–53 51

DCO® ComfortNight

Extras. Finishing. Accessories.



NanoScreen[™] Lacquer



Standard UV Lacquer



NanoScreen™ Soft Lacquer















Lacquer B



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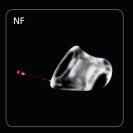
Cord with pop ends



Cord



Grip cylinder



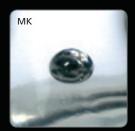
Nylon thread



Logo/Serial number



Right/Left marking



Metal ball





Colormix

DS 11 In-Ear Monitoring

Overview Accessories/Materials

Kürzel	Name	suitable for
DS 11	DS 11 In-Ear Monitoring	DLO* Music
GZ	Grip cylinder	DCO® ComfortNight
KA	Cord with pop ends	DLO® Industry
L	Lacquer B	DLO° Industry, DLO° Music, DLO° SkyComfort, DCO° OtoSwim, DCO° ShotKiller, DCO° ComfortNight
М	Matted	DLO° Industry, DLO° Music, DLO° SkyComfort, DCO° OtoSwim, DCO° ShotKiller, DCO° ComfortNight
MF	Colormix	DCO° OtoSwim
MK	Metal ball	DLO® Industry
NF	Nylon thread	DLO® Industry
NL	NanoScreen [™] Lacquer	DLO® Industry
NLS	NanoScreen [™] Soft Lacquer	DLO® Industry, DLO® Music, DLO® SkyComfort, DCO® OtoSwim, DCO® ShotKiller, DCO® ComfortNight
Ö	Cord	DLO° Industry, DLO° SkyComfort, DCO° ShotKiller
RL	Right/Left marking	DLO® Industry, DLO® Music, DLO® SkyComfort, DCO® OtoSwim, DCO® ShotKiller, DCO® ComfortNight
SNR	Logo/Serial number	DLO® Industry, DLO® Music, DLO® SkyComfort, DCO® OtoSwim, DCO® ShotKiller, DCO® ComfortNight
VG	Standard UV Lacquer	DLO® Industry

New packaging for customized hearing protection.

The new black hard case with silver Dreve logo and red snap hook will be introduced for all Protection & Comfort earmolds except for OtoSwim®. The water protection will be packed in red swimming boxes.

Advantages for your customers:

- High quality packaging
- Protects the content: Solid as a case for glasses
- Robust but fits in a pocket
- With interior pocket





Marketingtools: Supportive sales materials for you.

We are pleased to provide you consultation and presentation materials:

- Flyers & brochures
- Counter displays
- Photo & video materials
- Samples- & presentation boxes*
- Demo ears*



Presentation box with Hearing earmolds



Presentation box with Protection & Comfort earmolds













Convince yourself on our YouTubeChannel of our
Dreve product videos which could also be shown in your store.
www.youtube.com/user/DreveOtoplastikGmbH





Upon request we manufacture your personal customized earmolds for live demonstration for your customer*.

Please feel free to contact us – we are pleased to support you!









Our new service for you: Earmold ordering online.

SmartOrder is available now. The new website offers the possibility to order your earmolds online – just per mouse click. Regardless of whether you send scan data or the earmold impression by mail. The Dreve order website is fast, convenient and simply smart.

For the environment: Decide for digital.

- Intelligent order guidance
- Links to software tools of the hearing aid business
- Fast and easy online ordering process
- Archive and status function:
 Complete overview of your earmold orders

www.smartorder.dreve.de





Dreve Otoplastik GmbH