

Ear shells

Technical Data

Phonak's modular hearing protection devices (HPDs) can be used with both custom-molded and generic ear shells. All ear shells feature a standardized opening into which an earJack™ can be clicked in to form a perfect seal. Whereas custom shells provide the highest wearing comfort over long periods of time, generic ear shells can be used "out of the box" with any earJack-based system. Both are compatible with helmets and other protective gear. Both types of ear shell are certified as hearing protection devices when used in conjunction with selected Serenity and primo products.

Custom ear shells (eShells)

eShells are **custom-molded** ear shells. These hollow molds are manufactured using the ear impression of the user and several digital technologies. When an earJack™ is attached to the mold, the ear is sealed and only attenuated sounds reach the ear drum.

Benefits :

- user specific
- perfect fit
- comfortable to wear for several hours
- skin friendly : no sweating, irritation or sticking
- feather light
- highly robust
- easy to clean, machine washable
- quick and cost-efficient reproduction



Generic Ear Shells

Generic ear shells are **standard parts** that have been designed to fit different ear geometries and ear sizes. Silicone or Comply™ foam eartips provide the hearing protection feature by sealing the ear canal.

Benefits :

- immediate use
- "one size fits all" – no ear impressions required
- ergonomic design
- comfortable to wear
- do not protrude from the ear
- solid in-ear fix
- different eartip and retention sizes supplied



Ear shells

General features

Custom ear shells (eShells)	
Weight	1.8 g/ear shell
Markings	User ID and left/right
Metal detection	Optional
Replacement	Ear shell digitally stored; rapid re-manufacturing

Generic ear shells	
Weight	1.6 g/ear shell
Markings	left/right
Metal detection	Optional
Replacement	Left and right earpieces Comply™ foam eartips: S, M, L Silicone eartips: S, M, L Concha-retentions: S, L

Product versions :

- eShells for Serenity DP/DPC/primer DPC
- eShells for ComCom (do not provide hearing protection!)

Product versions :

- Generic ear shells – Complete
- Generic ear shells – Comply™ Foam
- Generic ear shells – Silicone

Hearing protection specifications

Phonak's custom and generic ear shells, in combination with selected Phonak hearing protection systems, comply with the EU directive 89/686/EEC and are tested and certified according to EN 352. The table below lists their passive attenuation values.

	eShells	Generic ear shells – Comply™ Foam	Generic ear shells – Silicone
Serenity SP/SPC 110WH / 105OR / 100YE	28 dB / 24 dB / 25 dB	Not certified	Not certified
Serenity DP/DPC	24 dB	25 dB	21 dB
primer DPC	24 dB	25 dB	21 dB

Which ear shells for which situation?

For daily use (8 h/day)
Consistent hearing protection (independent of user's insertion skills)
Highest comfort
For use in dirty environments
Cost efficient
Long-lasting
eShells

Immediate use
Convenient for temporary staff
Quick test of a Phonak device
Occasional/short term use
Instant replacement of lost ear shells
Use a Phonak hearing protection device when ear impression is not feasible
Generic ear shells

