

Product Information Sheet

SwedSafe Earplug EP1

Issue 6.1, 2023-01-25, TST

General product description & illustration

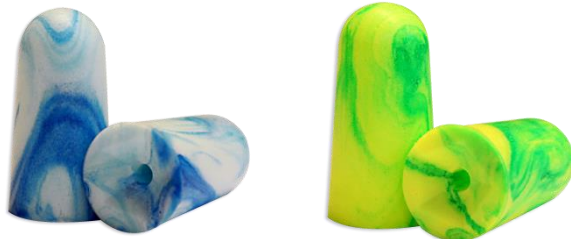
SwedSafe EP1 is a tapered shaped earplug made of polymer foam with slow recovery properties. EP1 exist in a large number of standard colors, and customized colors are possible. Please contact us for questions on color.

Example of standard colors



Note! Examples of colors. For all standard colors, please contact us.

Example of customized colors



General product data

Weight (approx):	0,44g/plug
Length (approx):	24mm
Diameter (approx):	12,5mm (at base)
Material:	Polyurethane – Acrylic polymer compound
Color:	A variety of standard colors available. Customized colors possible
Shape/design:	<ul style="list-style-type: none"> - Tapered with circular cross section and rounded forward tip. - X-marked base/back. (Standard) - Flat base/back available. - Customized base/back design (with restrictions) possible* see page 2
Attenuation:	see page 3
Quality:	see Quality documents

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Product characteristics

General characteristics

The earplug is made of polymer foam with slow recovery properties, which makes it possible to roll down the earplug diameter to a smaller diameter before insertion into the ear canal. After insertion will the foam slowly aim to recover its original size & shape and thus fill out, and seal off, the ear canal.

Another typical character of the earplug is the excellent sound dampening properties, obtained by a combination of the polymer type and the controlled cell structure of the foam.

The product is suitable for a wide range of applications where high attenuation is appreciated.

Typical area of use can be;

- facilitate sleep and/or concentration when exposed to disturbing noise
- protect against harmful noise (>85 dB) at various high noise situations

Suitable for most ear canal sizes (Medium to Large).

Unique characteristics

A slower "slow recovery" foam formula than competitor plugs of same type → = easier fitting

Guidelines for catalogue

Highest attenuation with high comfort. Using earplugs should be comfortable.

-Emboss in the back for easy insertion and removal (EP1X, EP1P, EP1H)

-high and linear attenuation for best protection

-Classical tapered shape

-Soft PUR-foam for comfortable long time wearing

The ergonomically shaped disposable earplug is characterized by very high sound absorption levels, making it suitable for use in very loud environments. The earplug has a sealed surface, preventing foreign bodies from penetrating the plug. The soft foam offers real comfort, even when worn for extended periods. The emboss in the end of the EP1 plug makes it easy to remove while simultaneously reducing the pressure on the outer wall of the ear canal.

Customized back/base options



EP1X



EP1F



EP1HX



EP1P

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Product tests / certifications / attenuation values

Europe

Tested according to EN 352-2:2020

This product fulfills the requirement of the (EU) PPE Regulation 2016/425 and are in conformity with PPE Regulation 2016/425 as adopted into the UK Law and amended. EU Declaration of Conformity and UKCA Declaration of Conformity: <https://swedsafe.com/doc/> EC type examination (Module B) certificate No.:2201201, notified body No. 0121 IFA Germany The conformity to the EU type examined product is based on quality assurance of the production process (Module D) under surveillance of the notified body 0598 (SGS Fimko Oy, Finland).

European Standard EN 352-2:2020

Attenuation data

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	35,3	38,4	39,3	40,8	38,9	37,8	45,9	45,1
Standard deviation dB	4,2	6,3	5,3	5,5	5,5	4,3	3,9	4,6
Assumed Protection dB (APV)	31,1	32,1	34,0	35,3	33,4	33,5	42,0	40,5

SNR: 37 dB

H: 36 dB, M: 35 dB, L: 34 dB

SNRm: 40 dB

Hm: 39,1 dB, Mm: 38,1 dB, Lm: 38,0 dB

SNRs: 2,8 dB

Hs: 3,1 dB, Ms: 3,2 dB, Ls: 3,6 dB

USA

Tested according to ANSI S3.19-1974

Test report No.: 0748A, Michael & Associates, USA

American Standard ANSI S3.19-1974

Attenuation data

Frequency Hz	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation dB	39,9	41,8	42,3	38,2	35,6	42,1	43,9	46,8	47,1
Standard deviation dB	4,2	4,4	3,7	2,4	2,2	2,3	2,85	4,1	3,2

NRR: 32 dB

Class A(L) Canada

Australia/New Zealand

Tested according to AS/NZS 1270:2002

Test report No.: 0788A, Michael & Associates, USA

Complies with the SAI Global product certification program; License No. SMKH 20526

Australian Standard AS/NZS 1270:2002

Attenuation data

Frequency Hz	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	26,0	28,2	28,7	29,0	34,6	39,5	42,3
Standard deviation dB	8,2	9,6	8,8	6,7	4,6	6,0	8,6
Mean SD dB	17,7	18,6	20,0	22,3	30,0	33,5	33,7

SLC₈₀: 26 dB Class 5

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Packaging

Several standard packaging alternatives are available for private label versions. Examples of typical private label consumer packaging alternatives can be seen below;



Other customized packaging alternatives can be offered.

Bulk packaging is available for all earplugs.



SwedSafe general characteristics

- The SwedSafe management system fulfils the requirement of the ISO 9001:2015 standard. Certified compliance by Qvalify, Certificate no. 1394.
- Produced in Sweden, the country with highest occupational health and safety requirements and regulations. SwedSafe fulfils all the requirements of the ISO 45001:2018 standard, certified by Qvalify.
- Produced in Sweden, the country with strictest environmental requirements and regulations. SwedSafe fulfils all the requirements of the ISO 14001:2015 standard, certified by Qvalify
- SwedSafe report sustainability work.
- Verified gap analysis / compliance to the ISO 26000 standard. Verified by INTERTEK, verification no. 1.