

Product Information Sheet

SwedSafe Earplug RP1L

Issue 6.1, 2023-01-25, TST

General product description & illustration

SwedSafe RP1L is a reusable earplug made of TPE designed to reduce sound levels with minimum distortion. For Medium / Large sized ear canals.

RP1L exist in multiple standard colors, and customized colors are possible. Please contact us for questions on color.

Example of standard colors



General product data

Weight (approx):	0,77g/plug
Length (approx):	30mm
Diameter (approx):	12mm
Material:	TPE (SEBS type)
Color:	A variety of standard colors available. Customized colors possible.
Shape/design:	Molded multi-flanged Available with or without cord
Attenuation:	see <i>page 3</i>

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Product characteristics

General characteristics

The earplug is made of a thermoplastic elastomer (TPE), and more specifically a TPE of a SEBS-type, which in combination with the shape/design, has a perfect combination of elasticity to adapt to a variety of ear canal shapes & sizes, and yet a stiffness enough to enhance correct insertion and proper sealing, as well as suitable acoustical properties.

The product is suitable for a wide range of applications where easy insertion, sealing and multiple reuses is appreciated, and where a moderate attenuation and undistorted sound is appreciated in order to facilitate communication.

Typical area of use can be;

- Music events (rock concerts, discos etc) with high noise (>85 dB)
- Water activities (swimming, showering etc) where avoiding water in your ears is aimed

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

Guidelines for catalogue

Self Sealing flanges that seals against both hazardous noise and water. Gives all day comfort and can be reused several times.

Pre-formed with no rolling required makes insertion easy and avoids contact with parts inserted into the ear. Reduces the risk for unhygienic contamination.

Even and moderate attenuation gives a natural sound and makes the plug excellent for speech clarity and comprehension but still blocks out hazardous noise.

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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.:2201204, 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	26,6	26,9	24,3	26,1	28,8	32,8	32,6	38,1
Standard deviation dB	6,1	6,1	4,1	5,1	5,1	5,0	6,5	5,3
Assumed Protection dB (APV)	20,5	20,8	20,2	21,0	23,7	27,8	26,1	32,8

SNR: 27 dB

H: 27 dB, M: 24 dB, L: 22 dB

SNRm: 30,3 dB

Hm: 31,4 dB, Mm: 28,0 dB, Lm: 26,0 dB

SNRs: 3,8 dB

Hs: 4,0 dB, Ms: 4,1 dB, Ls: 4,0 dB

USA

Tested according to ANSI S3.19-1974

Test report No.: Q892A, 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	32,4	31,5	32,3	32	33,6	38,1	37,4	39,9	43,8
Standard deviation dB	5,4	4,7	4,0	3,8	3,5	3,4	3,3	4,7	4,2

NRR: 25dB

Class A(L) Canada

Australia/New Zealand

Tested according to AS/NZS 1270:2002

Test report No.: Q637A, Michael & Associates, USA

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

Australian Standard AS/NZS 1270:2002

Attenuation data

Frequency Hz	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	25,8	24,7	25,2	24,7	29,3	33,7	39,4
Standard deviation dB	6,4	6,4	6,8	5,5	5,7	7,5	7,2
Mean-minus-standard dev. dB	19,4	18,3	18,4	19,2	23,6	26,2	32,2

SLC80: 22dB Class 4

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Packaging

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



Other customized packaging alternatives can be offered.

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.