3M Science. Applied to Life.™

3M™ E-A-R™ UltraFit™ Earplugs

Key benefits:



Comfortable

- Flexible tri-flange design conforms to most ear canals
- Soft and durable material improves comfort and wearability

Protective

- Tri-flange design provides a reliable seal
- No need to handle the plug tip making them more hygienically acceptable
- Compatible with 3M™ E-A-RFit™ Dual Ear Validation System which measures the effectiveness of the earplug's protection level

Convenient

- One size fits the majority of wearers
- No roll-down required – a gentle push is all it takes for easy, consistent insertion
- Separate cord, which can be removed and re-inserted for optional uncorded or corded wear

Reusable

- 84 days or 672 operating hours of use
- Durable material can be washed multiple times

Packaging

- Reusable recyclable cardboard packaging
- Reusable poly con box available separately

Manufacturing

- Manufactured in Europe
- ISO 14001 (environmental management system) held by European Hearing Protection manufacturing plant

Materials

The following materials are used in the manufacture of this product:

Product materials	Weight [kg]	Weight [wt%]	Pre-consumer recycled content [wt% vs the products]	Biogenic material, weight% and kg C/ product or functional unit
PVC - Cord	1.46E-03	41.8%	0.5%	0 resp. 0
Thermoplastic elastomer - Earplug	2.04E-03	58.2%	0%	0 resp. 0
TOTAL	**3.50E-03**	**100%**	**0.5%**	**0 resp. 0**

The table reports respectively the product composition. Weight in kg and % is presented per the functional unit. The tables also present the biogenic carbon content (as kg of C3 per functional unit, and as weight %).

Attenuation values

	Frequency (Hz) *f*								H	M	L	SNR
	63	125	250	500	1000	2000	4000	8000				
Mf (dB)	26.8	27.0	26.3	27.7	28.7	32.0	37.8	41.1	32.4	28.9	27.3	31.5
Sf (dB)	3.7	4.9	4.2	4.5	4.4	3.7	4.5	4.4	2.7	3.5	3.6	3.0
APVf (dB)	23.1	22.1	22.1	23.2	24.3	28.3	33.3	36.7	30	25	24	29

Key

f = Test frequency

Mf = Mean attenuation value

Sf = Standard deviation

APVf (Mf - Sf) = Assumed Protection Value

H = High-frequency attenuation value

M = Medium-frequency attenuation value

L = Low-frequency attenuation value

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, LC in order to estimate the effective A-weighted sound pressure level inside the ear)

For more information on 3M™ E-A-R™ UltraFit™ Earplugs please see our Environmental Product Declaration

SCAN ME:

EPD INTERNATIONAL EPD SYSTEM

While there are various approaches to achieving more sustainable solutions in the market, 3M believes that science and data-driven decisions must guide these efforts. Conducting Life Cycle Assessments (LCAs) and using standardised Product Category Rules (PCRs), to create Environmental Product Declarations (EPDs) is one of the essential ways for making informed decisions regarding the full environmental impact of a product. These assessments offer crucial data to evaluate environmental benefits by highlighting improvements across various aspects of product design and production, clearly illustrating how environmental impacts can vary and evolve.

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