



Certificate

OEKO-TEX® STANDARD 100

GENTUG TEKSTIL ÜRÜNLERİ SAN. VE
TIC. A.Ş.

is granted the OEKO-TEX® STANDARD 100 certification
and the right to use the trademark.

SCOPE

Non-woven felt made of PES/recycled PES (recycled content < 20 %: from post-consumer PET bottles and pre-consumer yarns), white and fibre-dyed in black, knitted and woven fabric (incl. brushed, also woven jacquard with PES fibre) made of CO in white, knitted and knitted terry fabric made of CLY, CV/PES, CV(bamboo)/PES and PES (also quilted knitted fabric with PES fibre and PP non-woven fabric) in white, knitted terry fabric made of CO/PES in white, knitted fabric made of PES, PA/recycled PA (recycled content < 20 %: from pre-consumer yarns), PES/PA and CO/PES in white, woven fabric made of CO/PES, white and pigment printed, all with or without PVC coated or PUR laminated as well as artificial leather produced from knitted fabric made of PES, white and dyed, with coloured PUR/PVC, PVC or PUR coating or lamination, with or without hydrophilic, water repellent, antistatic and softener finish and UV-stabilizer, partly finished with flame retardant and biologically active products accepted by OEKO-TEX®; partly produced by using material ... [Please scan QR code for full scope]

PRODUCT CLASS

I (baby articles) - Annex 4

Further compliance information (REACH, SVHC, POP, GB18401 etc.) can be found on [oeko-tex.com/en/faq](https://www.oeko-tex.com/en/faq).

The certificate is based on the test methods and requirements of the OEKO-TEX® STANDARD 100 that were in force at the time of evaluation.



This certificate 10.HTR.75684 is valid until
30.06.2024.

SUPPORTING DOCUMENTS

- ✓ Test report : 23.1047626
- ✓ Declaration of conformity in accordance with EN ISO 17050-1 as required by OEKO-TEX®
- ✓ OEKO-TEX® Terms of Use (ToU)

Ivonne Schramm

Dipl.-Ing. (FH) Ivonne Schramm
Head of Certification Body OEKO-TEX®

Bönningheim, 2023-08-18





Environmental Product Declaration (EPD)

Feltvibe Acoustic Pet Felt Panels 1600 g/m²

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

Feltvibe Acoustic PET Felt Panels 1600 g/m²

Preliminary Report - 01.04.2025 -30.09.2025 (6 months)

1. General Information

This Environmental Product Declaration (EPD) represents the environmental performance of Feltvibe Acoustic PET Felt Panels manufactured by Gentuğ Tekstil San. ve Tic. A.Ş.

The declaration is based on the requirements of EN 15804+A2:2019 and ISO 14025 standards.

2. Product Description

Feltvibe Acoustic PET Felt Panels are decorative and functional acoustic solutions designed for interior wall and ceiling applications. They are produced from polyester (PET) fibers containing at least 60% post-consumer recycled content. The panels are available in various thicknesses (9–24 mm) and dimensions up to 1500 × 2750 mm.

3. Applications

Feltvibe Acoustic PET Felt Panels are used as interior acoustic wall and ceiling panels in offices, schools, hotels, restaurants, public buildings and other indoor spaces where noise control and aesthetic surface finishes are required.

4. PCR & Standards

- Product Category Rules (PCR): EN 15804+A2:2019 – Construction Products
- Standard: ISO 14025:2006 – Environmental labels and declarations – Type III
- Additional reference: ISO 21930:2017

5. Declared Unit and System Boundaries

Declared unit: 1 m² of PET acoustic felt panel, 1600 g.

System boundaries: Cradle-to-grave (A1–A3, A4–A5, B, C1–C4, D), in accordance with EN 15804+A2.

6. Manufacturing Site

Manufacturing site: Gentuğ Tekstil San. ve Tic. A.Ş. Düzce / Turkey.

The plant is equipped with on-site solar panels generating renewable electricity, contributing to the reduction of scope 2 emissions. Production includes PET felt manufacturing, CNC cutting and optional lamination or printing.

7. Material Composition

Material	Share (%)	Notes
Recycled PET fibers	≥60	Post-consumer recycled content
Virgin PET fibers	≤40	Complementary input

8. Technical Performance

- Acoustic absorption (EN ISO 11654): NRC / α_w values depending on thickness and mounting
- Fire classification (EN 13501-1): B-s1,d0
- VOC emissions: low / negligible (no phenol-formaldehyde)
- OEKO-TEX® STANDARD 100 Class 1 certified

9. Life Cycle Inventory (LCI)

The Life Cycle Inventory (LCI) is based on primary data collected at the manufacturing site over a recent six-month period, and secondary data sourced from recognized LCI databases. Data collection covers energy consumption, water use, waste generation, packaging, and tr

Parameter	Unit	Value	Notes
Total production (acoustic)	kg	15,964.4	1600 g product
Electricity consumption (measured for product)	kWh	13,320	Measured
PV self-consumption (allocated to product)	kWh	17,370.63	Allocated from PV self-consumption
Natural gas / other energy	MJ	0	Not used for needlepunch lines
Water consumption	L	0	Only personnel use; product none
Recycled PET	kg	9,578.64	Supplier: Gaziantep
Virgin PET	kg	6,385.76	Supplier: China
Packaging materials	kg	667	25 pallets; 29 kg cardboard; 10 kg stretch; 3 kg strapping
Packaging CO2-eq	kg CO2-eq	368.2	Calculated
Production waste	kg	1,552	6-month period
Transport – raw materials	ton·km	321,906	China -> Istanbul -> Duzce
Transport CO2-eq	kg CO2-eq	4,387.017	Calculated (DEFRA factors)

10. Life Cycle Impact Assessment (LCIA)

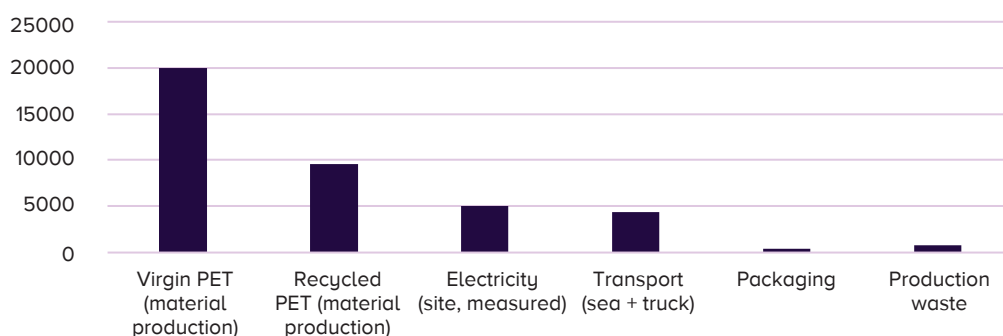
Environmental impact results per declared unit are calculated according to EN 15804+A2.

Impact category	Unit	Total (approx.)
Global Warming Potential (GWP)	kg CO2-eq	40,027
Fossil Depletion (FD)	MJ	1,276,070
Water Use (WU)	L	43,121
Acidification Potential (AP)	kg SO2-eq	136.10
Eutrophication Potential (EP)	kg PO4 ³⁻ -eq	62.93
Photochemical Ozone Creation (POCP)	kg NMVOC-eq	34.12
Human Toxicity (HT)	kg 1,4-DB-eq	136.10

11. GWP Breakdown Charts

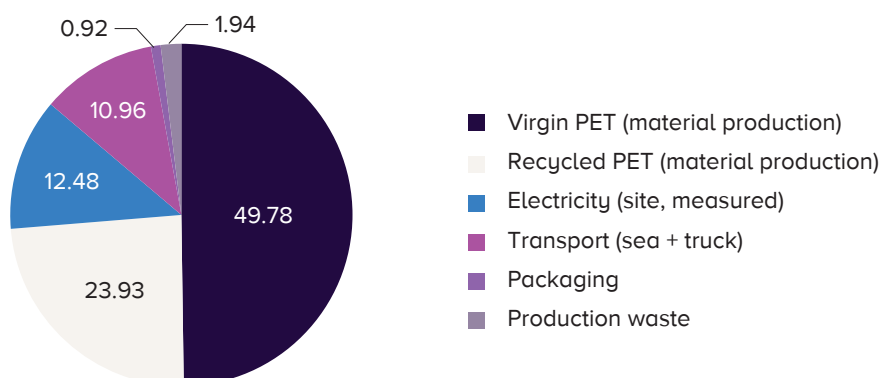
Bar chart and pie chart showing distribution of GWP across main life cycle stages.

GWP kg CO2eq



■ GWP kg CO2eq

Share percent



12. Use Stage

Feltvibe PET acoustic panels are passive elements and do not require energy or chemicals during their use stage. Cleaning can be performed by vacuuming or wiping with a dry cloth. No maintenance is typically needed during the reference service life.

13. End-of-Life Stage

Typical end-of-life scenarios include mechanical recycling of PET fibers where facilities are available, energy recovery through incineration, or landfill disposal. Scenarios should be adjusted according to local waste management practices.

14. Verification and Program Information

This report has been prepared internally and has not been verified by an independent third party.

15. Contact Information

Gentuğ Tekstil San. ve Tic. A.Ş.

Address: Organize Sanayi Bölgesi 13. Ada 1/4 Parsel, Beyköy Belediyesi, Düzce, Türkiye

E-mail: info@gentug.com.tr

Website: www.feltvibe.com

16. Notes

- This document presents the environmental data for Feltvibe Acoustic PET Felt Panels (1600 g) based on collected primary and secondary data. All results are derived from the conducted LCA study.
- LCI and LCIA data refer to a 6-month production period for 1600 g PET acoustic felt panels.
- All values are derived from primary factory data and secondary literature/LCI databases.
- Packaging includes pallets, cardboard, stretch film, and strapping.
- Transport includes container shipping and truck distribution from suppliers to factory.



HEAD OFFICE

Savaş Cad. Söğüt Sok. No: 1
34164 Merter, İstanbul, Türkiye
T: +90 212 637 09 89
F: +90 212 637 02 96
info@feltvibe.com

DÜZCE FACTORY

Organize Sanayii Bölgesi 13. Ada
1/4 Parsel Beyköy Belediyesi
81060 Düzce, Türkiye
T: +90 380 553 73 68-69
F: +90 380 553 73 68-69

GEREDE FACTORY

Gerkonsan Organize
Sanayii Bölgesi
14900 Gerede, Bolu, Türkiye
T: +90 374 311 82 57 / 58
F: +90 374 311 66 37

İZMİR BRANCH

MTK Sitesi 747/ 2 Sokak
No:37 6003 ADA, 6003
Altındağ, İzmir, Türkiye
T: +90 232 431 08 17-18
F: +90 232 431 08 19

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www.feltvibe.com