

ACOUSTIC
FELT



FeltVibe®



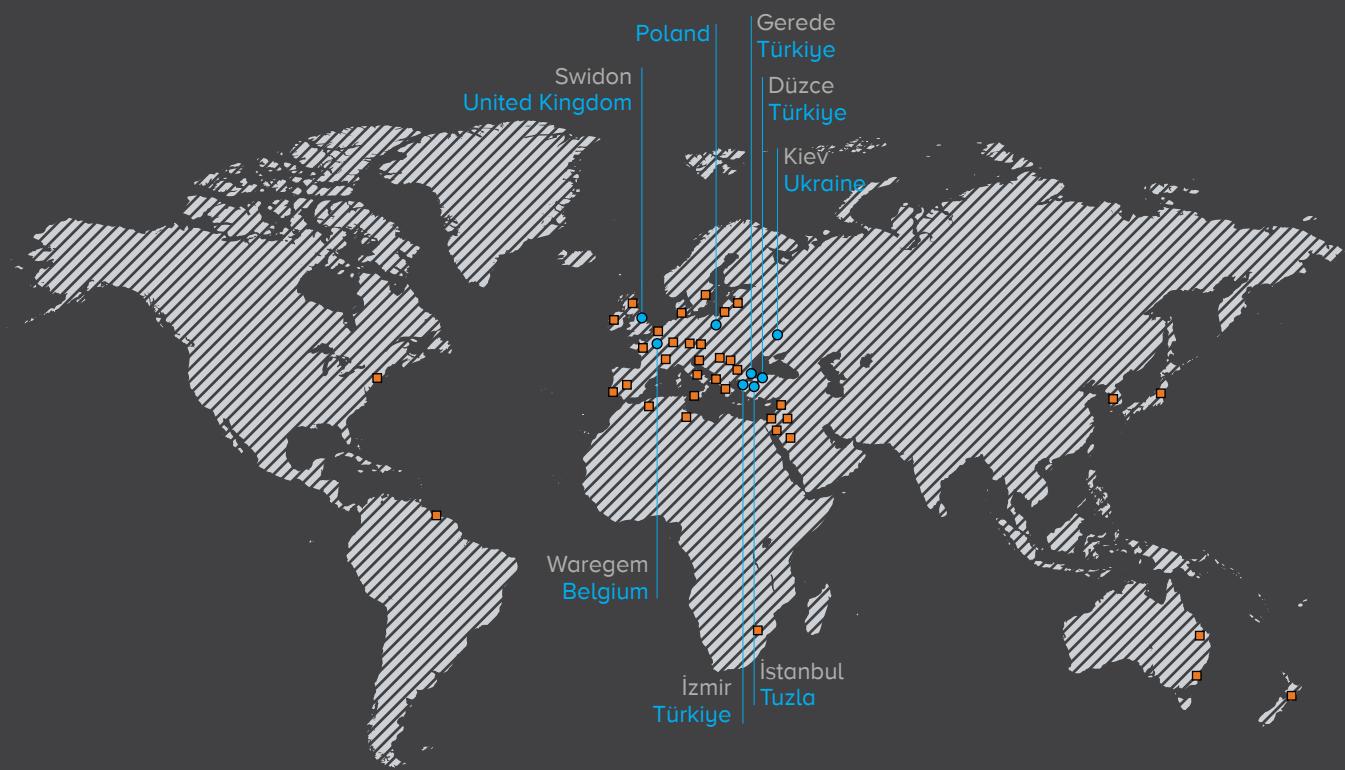
Environmental Product Declaration (EPD)

Feltvibe Acoustic Pet Felt Panels 1600 g/m²

In 68 Countries

Gentuğ Textile continues to contribute to our national economy by exporting its world-class products to more than 68 countries with exemplary customer service.

Australia, Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Irak, Ireland, Israel, Italy, Japan, Jordan, Lithuania, Libya, Macendonia, Malta, Netherlands, New Zealand, Poland, Portugal, Queensland, S. Africa, S.Korea, Scotland, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Suriname, Turkey, Ukraine, UAE, USA...



- Operating Countries
- Representative Office

ABOUT US

Local Manufacturing

We are a longstanding supporter of Türkiye design and manufacturing, with over 90% of our textiles and acoustic products made locally.

Our History

In 1917, Gentuğ began as a textile-focused venture, but over the years, we've evolved beyond woven fabrics, transforming into leaders in decorative acoustic products. Our journey symbolizes a fusion of textile heritage and cutting-edge acoustics solutions, captured in the from looms to acoustic landscapes, our evolution reflects deliberate strides in design innovation. We've embraced a future where our commitment to uniqueness thrives in modern, decorative acoustic solutions, reshaping interior aesthetics.

Today, Felt Vibe® stands at the intersection of textile legacy and acoustic ingenuity. Our story is one of transformation, where past threads seamlessly weave into the vibrant tapestry of our acoustic future: decorative acoustic panel, sound and thermal insulation.

Felt Vibe® global design, local production

Our state of the art research and development facility is supported by a team of industrial designers, product engineers and acousticians. With 3 direct production facilities, extensive sales and specification teams, and local support available in multiple countries across 4 continents, we strive to deliver an innovative experience through our products and solutions.

Felt Vibe® produces design driven architectural acoustical solutions. Our raw material offers the highest standard in acoustical performance and is fully customizable offering solutions ranging from ceiling, walls, dividers, and furniture applications. We work with architects, interior designers, fit-out and refurbish companies, and global brands directly. We supply all of our local partners with raw material made from PET plastic and organic fibers. Due to the nature of our material, we can provide a wide array of design options, color choices, and bespoke print capabilities.



Düzce Factory

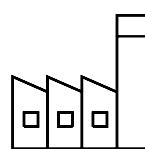


Gerede Factory



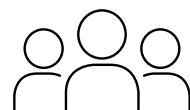
Tuzla Factory

Business Overview



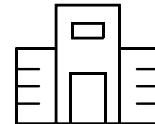
3 Factories

in Gerede, Tuzla, and Düzce



500 Employees

in Total



55.000 m²

Closed Production
Floor Spaces

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 / Iw 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: Korea
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	Korea -> Istanbul -> Duzce
Transport CO2-eq	kg CO2-eq	4,387.017	Calculated (DEFRA factors)

10. Life Cycle Impact Assessment (LCIA)

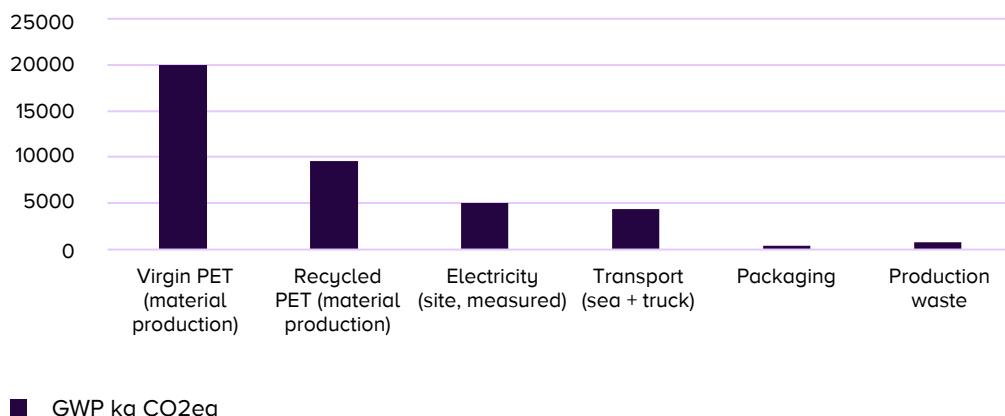
Environmental impact results per declared unit are calculated according to EN 15804+A2.

Impact category	Unit	Total (approx.)
Global Warming Potential (GWP)	kg CO ₂ -eq	40,027
Fossil Depletion (FD)	MJ	1,276,070
Water Use (WU)	L	43,121
Acidification Potential (AP)	kg SO ₂ -eq	136.10
Eutrophication Potential (EP)	kg PO ₄ ³⁻ -eq	62.93
Photochemical Ozone Creation (POCP)	kg NMVOC-eq	34.12
Human Toxicity (HT)	kg 1,4-DB-eq	136.10

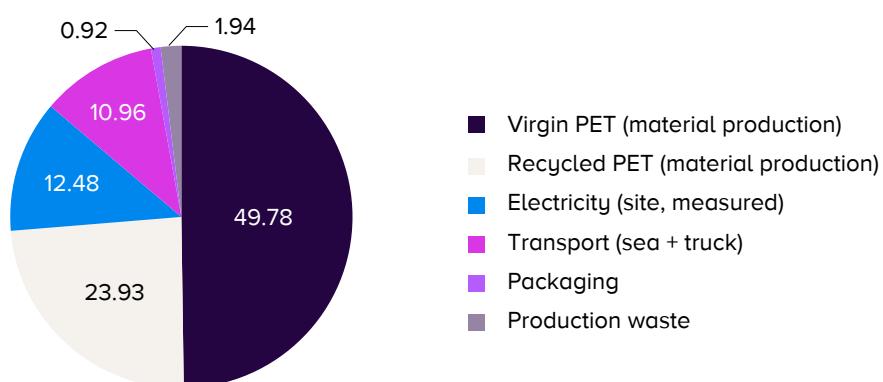
11. GWP Breakdown Charts

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

GWP kg CO₂eq



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

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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.

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