TECHNICAL DATA SHEET (TDS)

EPS Fish Boxes

Document No.: TDS-FB-001

Revision: 1.0

Issue Date: 14.07.2026

---

1. Manufacturer

Vartdal Plastindustri AS

Vartdalsstranda 1072

NO-6170 Vartdal

Norway

www.vartdalplast.no

---

2. Product Scope

This Technical Data Sheet applies to fish boxes manufactured by Vartdal Plastindustri AS from Expanded Polystyrene (EPS), including the following product families:

- VARTDALKASSEN
- VARTDAL AIRBOX
- VARTDAL LOOP
    - Vartdalkassen Loop
    - Vartdal Airbox Loop
- VARTDAL MATKASSER
- TERMOPOR FISKEKASSER

The products are intended for the storage, handling and transportation of fish, seafood and other temperature-sensitive food products.

---

3. Product Description

Fish boxes are manufactured from Expanded Polystyrene (EPS) and are intended to contribute to the hygienic storage, handling and transportation of fish, seafood and other temperature-sensitive food products.

Products are available in a range of standard sizes and configurations to meet different application requirements.

4. Intended Applications

Typical applications include:

- Fresh fish
- Seafood
- Aquaculture products
- Chilled food products
- Ice-packed food products
- Other temperature-sensitive food products

Applications may vary depending on customer requirements and the intended logistics chain.

5. Material

The products are manufactured from **Expanded Polystyrene (EPS)**.

Expanded Polystyrene is a closed-cell rigid foam material combining low weight with good mechanical strength and thermal insulation, making it suitable for insulated food packaging applications.

6. Product Performance

Fish boxes are designed to contribute to the hygienic storage, handling and transportation of temperature-sensitive food products.

The thermal insulation properties of Expanded Polystyrene (EPS) contribute to reducing heat transfer between the packaged product and the surrounding environment. Together with appropriate icing, suitable product temperature at packing, hygienic handling and suitable storage and transport conditions, EPS fish boxes support the transportation of temperature-sensitive food products throughout the logistics chain.

Expanded Polystyrene (EPS) combines low weight with mechanical strength and thermal insulation, resulting in a high payload-to-packaging ratio. As an illustrative example, a typical EPS fish box with lid weighs approximately **0.6 kg** while carrying up to **25 kg** of fish and ice. Under these conditions, the EPS packaging represents **approximately 2% of the total transported pallet load**, illustrating the high transport efficiency of EPS fish boxes.

Depending on the product design and intended application, EPS fish boxes may contribute to:

- thermal insulation;
- mechanical protection during normal handling and transport;
- moisture resistance;

- hygienic containment of food products; and
- a high payload-to-packaging ratio.

---

7. Technical Characteristics

Typical characteristics of Expanded Polystyrene (EPS) fish boxes include:

Property	**Typical Characteristic**
Material	Expanded Polystyrene (EPS)
Structure	Closed-cell rigid foam
Appearance	White (unless otherwise specified)
Intended use	Food packaging
Weight	Lightweight
Mechanical properties	Good cushioning and compressive strength
Moisture behaviour	Low water absorption under normal conditions
Thermal properties	Good thermal insulation
Dimensional stability	Good under normal conditions of use
Recyclability	Suitable for recycling through established EPS recycling systems

Product characteristics may vary depending on product type and dimensions.

---

8. Product Range

Products are available in a range of standard sizes, dimensions and configurations.

Product dimensions and specifications are available on the company's website.

---

9. Storage and Handling

Products should be stored in clean, dry conditions and protected from prolonged exposure to direct sunlight and other sources of ultraviolet (UV) radiation.

Products should be protected from open flames and other ignition sources.

Boxes should be stored hygienically prior to use and handled in a manner that avoids unnecessary mechanical damage.

---

10. End-of-Life

Expanded Polystyrene (EPS) fish boxes are suitable for recycling and are widely collected through established recycling systems within the seafood industry.

At many seafood processing and distribution facilities, used EPS fish boxes are collected separately and compacted to significantly reduce their volume prior to transport. The compacted EPS is then transported to specialist recycling facilities, enabling efficient logistics with high transport payloads while maintaining the material quality required for recycling.

To achieve the highest material quality for recycling, EPS fish boxes should be collected separately from mixed waste wherever practical.

Where dedicated collection systems are not available, EPS may also be collected through other established recycling systems in accordance with local waste management arrangements.

---

11. Chemical Information

REACH

The products comply with the applicable requirements of Regulation (EC) No. 1907/2006 (REACH).

Substances of Very High Concern (SVHC)

The products do not contain Substances of Very High Concern (SVHC) above the reporting threshold defined in Article 33 of Regulation (EC) No. 1907/2006 (REACH).

PFAS

The products comply with the applicable PFAS requirements established under Regulation (EU) 2025/40 (PPWR).

---

12. Document Information

Document Number	TDS-FB-001
Revision	1.0
Issue Date	14.07.2026
Issued by	Vartdal Plastindustri AS