

Model Specification: Export Densified Foamed Polystyrene

This model provides a standard description for export densified EPS (expanded polystyrene) foam. However, individual buyers might have varying allowable components, both in contents and sizes.

Basic Overview:

The Foam Polystyrene blocks should consist of a minimum of 98% polystyrene foam, and the moisture content must be below 2%. This specification is designed for densified foam intended to be used as a raw input, with no further processing before extrusion.

Export densified waste EPS foam can be acquired from the public at either municipal or private drop-off facilities and can also be sourced from EPS manufacturing facilities. The material can be densified via cold or thermal compression.

Grades:

- **White Grade:** This includes white polystyrene foam with minimal tape, labels, and food stains.
- **Neutral Grade:** This consists of mixed colour polystyrene foam with minimal tape, labels, and food stains

Contaminants:

The following contaminants are strictly prohibited:

- Hazardous waste (Note: EPS waste from construction materials may contain flame retardant additives, typically <1%; these may include Hexabromocyclododecane (HBCD) additives and should be recognized as a potential minor component. HBCD may categorize EPS waste as 'hazardous' under the Basel Convention).
- Medical waste (Note: EPS packaging from medical facilities that had no contact with medical materials is allowed).
- Radioactive materials.
- Residual Chemicals including flammable, corrosive, or reactive materials, pesticides, and herbicides.
- Non-plastics.
- Any other plastic containers or packaging including PET (#1), HDPE (#2), PVC (#3), LDPE (#4) PP (#5), or Other #7 Plastics.

Non-plastics refer to, but are not limited to, aggregate (asphalt, concrete, rock, stone, etc.), fiber (cardboard, fabric, paper, etc.), glass, metal, and wood.

Block Size

- Large: 0.4m x 0.4m x 1.0m (tbc)
- Small: 0.15m x 0.15m x 1.0m (tbc)

Block Density:

- Cold compression: 150-500 Kg/m³
- Thermal compression: 400-900 Kg/m³

Shipping Form:

The material is shipped in the form of logs/blocks or ingots on pallets.

Pallet Wrap:

Typically one layer of stretch wrap should cover the blocks from top to bottom, securing logs/blocks/ingots to the pallet. This may vary according to the buyer.

Integrity:

The integrity of the pallets must be preserved during loading, shipping, unloading, and storage.

Storage:

Pallets should be stored indoors or if stored outdoors, should be covered. The material should not be stored outdoors uncovered for more than two (2) weeks to avoid UV degradation from direct sunlight and contamination from moisture. (tbc)