

Usage of EPS Introduced by EISHI Co., Ltd

1. Why Use EPS?

Insulation

- The closed-cell foam structure of EPS — it consists of microscopically small air bubbles — makes it the simplest and best thermal insulator compared to other packaging materials.
- EPS is a hygienic material that is fully approved for food use. It is commonly used to package fresh fish, meat, seafood and vegetables.
- Fruits and vegetables retain their Vitamin C content longer when packed in EPS.
- EPS is selected to package vaccines and human organs because of its strength and consistent performance.
- EPS provides totally reliable insulation because its strength and insulation properties are unaffected by wet or damp conditions, it is resistant to moisture and does not break apart in unfavourable conditions.
- Leading food companies choose EPS because food safety is paramount and the reliability of EPS guarantees a secure supply chain from supplier to customers' homes.

Protection

- Outstanding shock absorption and compression resistance can be designed into an EPS package.
- A moulded EPS pack is not damaged by damp, heat or moisture and will continue to protect whatever the outside conditions.
- EPS can be moulded in different densities giving a range of protective performances.
- Wood, plastic and metal can be moulded into EPS to provide extra strength as required.
- The soft surface of EPS protects against damage caused by dust, scratching and dirt.

EPS protects people; it is used for cycle helmets, child car seats, lifebelts, floats and to package vaccines and organs intended for transplants.

2. Typical EPS Applications

- Underfloor Insulation
- General Insulation Board
- Cavity Wall Insulation
- Roofing Insulation
- Civil Engineering Applications
- Marine Applications

3. Re-using EPS

EPS is a safe material that can be re-used in many ways. Some suggestions are:

- EPS can be broken into large chunks and placed in the bottom of window boxes and plant pots in the garden. It aids drainage (like broken terracotta) and as an added benefit it provides insulation during a cold winter.
- An old EPS box can be used as a seed tray — just drill a few holes for drainage and it provides a perfect growing environment.
- If your EPS box is clean and dry it can be usefully employed to store items in the loft and it provides protection for fragile items.
- A clean EPS box with a soft blanket inside provides a warm bed for a pet.
- You can keep an EPS box in the boot of your car to transport frozen or chilled items home.
- Use an EPS box to keep drinks and food cool for picnics.
- If you need to transport fragile items, wrap them and put them in an EPS box for added protection.