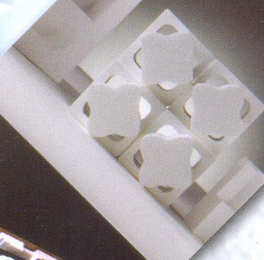
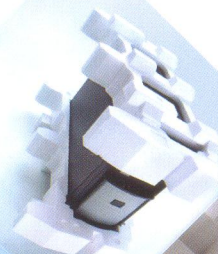
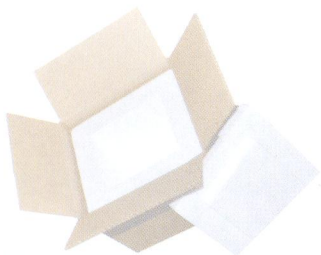




**ADVANCED EPS TECHNOLOGIES LTD.**

EPS • SANDWICH PANEL • MANY MORE...





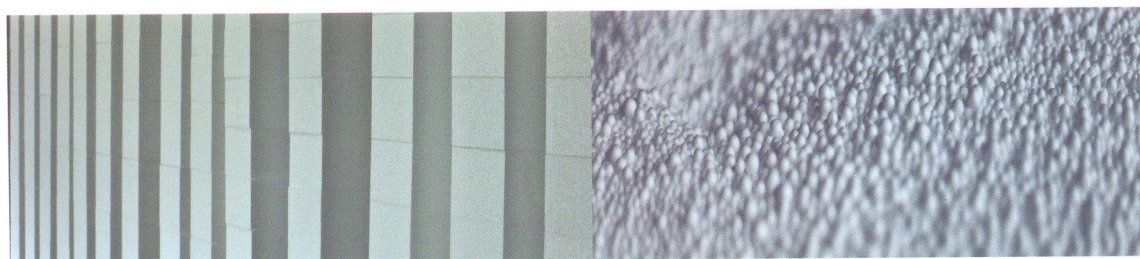
**A**

Advanced Technology & Ideas Ltd., a sister concern of Advanced Group has emerged as a new dynamic company that manufactures Expanded Polystyrene (EPS) as insulation material in construction industry and many diversified field for the first time in Bangladesh.

With a new production facility, we have the ability to produce 200,000 m<sup>3</sup> with an extension to maximum 600,000 m<sup>3</sup> of EPS blocks and 500,000 square meter of high quality EPS insulated sandwich panels per year. The factory is located at Munshigonj on Dhaka-Chittagong highway spread over a land of 55,000 sq. meter.

## What is Expanded Polystyrene (EPS)?

EPS is a type of insulation that is molded or expanded to produce coarse, closed cells containing air. Expansion is achieved by virtue of small amounts of pentane gas dissolved into the polystyrene base material during production. EPS foam products whether used for insulation or packaging are lightweight, versatile, sanitary, energy efficient and most importantly cost effective.



Our EPS blocks volume are of 3.2 cubic meter (3080mm x 1250mm x 830mm). It can be cut into any desired shapes according to the requirement. The Advanced EPS blocks having a density range from 12 kg/cum-90kg/cum depending on the various applications.

## Properties of EPS

The following properties make EPS a perfect packaging material:

### ● Shock absorption

The material has a high-energy absorption index. This makes it the ideal material for protecting sensitive products during transport and storage.

### ● Thermal insulation

Due to its closed cell structure, which inhibits the passage of heat or cold, EPS has a high capacity for thermal insulation. This protects products such as vaccines or other Pharmaceutical items and food such as fish and meat from sudden changes in temperature.

### ● Low weight

EPS is 98% air making it the lightest packaging material available. This reduces the overall packaging weight and provides savings in fuel consumption — reducing the environmental impact of transporting products.

### ● Retention of vitamin C

When packed in EPS, fruits and vegetables retain their vitamin C content longer than food packaging in other materials.

### ● Resistance to humidity

The excellent mechanical and thermal properties are unaffected by humidity because EPS does not absorb water or water vapor.



- **Compressive resistance**

The unique ability of EPS to resist compression makes it ideal for packing large items such as cookers and washing machines. Not only does EPS protect them in transit, but they can be stacked in the warehouse, saving on space and without any damage to the items.

- **Chemical resistance**

Allows many products to be packed without the goods being affected.

- **Display effect to promote sales**

EPS can easily be printed or coloured, it has a clean appealing appearance and can be used in many different ways to dress products to attract customers.

- **Low thermal conductivity**

Due to its closed air-filled cell structure that inhibits the passage of heat or cold, a high capacity for thermal insulation is achieved.

- **Hygienic nature**

EPS is completely inert and innocuous, it meets all the food contact regulatory standards and can be used to package food or pharmaceuticals.

- **Ease of handling and installation**

The material can be handled in the usual way. You are guaranteed a perfect finish. The low weight of EPS makes it easy to handle and to transport to site.

- **Chemical resistance**

EPS is completely compatible with other materials used in construction including cements, plasters, salt, fresh water and so on.

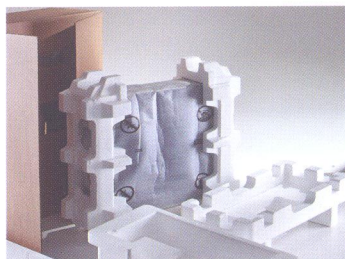
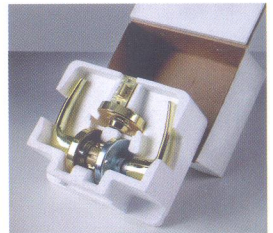
- **Versatility**

EPS can be cut into the shape or size required by the construction project.

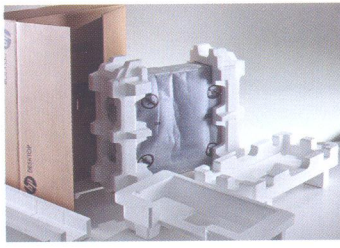
## USAGE OPPORTUNITIES :

### Packaging:

EPS offers a high-performance yet economical support for a wide variety of items—from sensitive electronics to appliances to pharmaceuticals—to be safely delivered to market. Manufacturers rely on EPS packaging because of its ability to prevent or minimize product damage during transit and its excellent insulation properties and medical shipments.

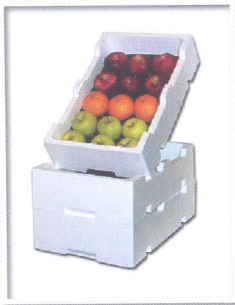
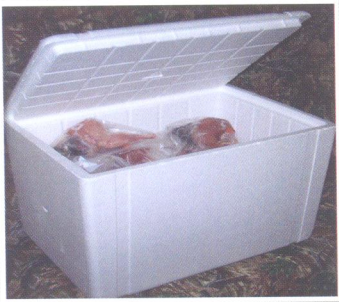






### Food Packaging:

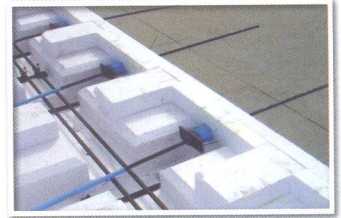
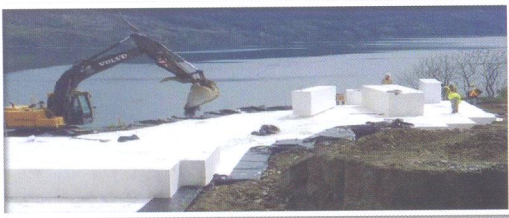
Food Packaging, Fish, meat, fruit, ice cream — EPS packaging is the best way of keeping any foodstuff fresh. The perfect protection avoids hazards, breakages and wastage in the different stages of production and transport. Every day EPS packaging is ensuring that many different foods reach the retailer or the final consumer in perfect condition.



### Applications as a Construction Material

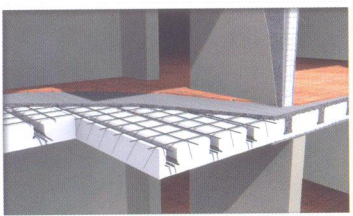
EPS is used in many aspects of building work including large structures such as roads, bridges, railway lines, public buildings or even small family residences.

The characteristics of EPS make it ideal for use as a lightweight filler, insulation, as an element for decorating or imaginative touches, as a lightweight filling material in roads, to facilitate land drainage and so on.



### Wall, Roof & Floor Insulation:

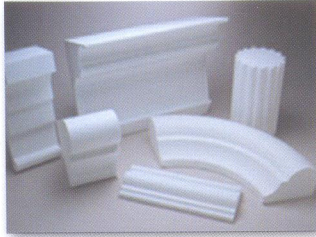
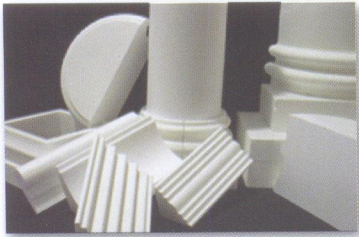
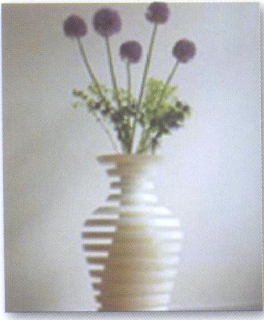
EPS Foams have excellent R-values making it perfect insulation for interior and exterior walls, roofing, and under slab & subfloors. With a variety of laminate options, you can choose the right solution for your construction project. Sheathing is one of the most basic and widely used applications for EPS insulation in residential and commercial construction. It helps create an envelope around the structure, covering wall cavities and studs to increase their resistance to heat transfer and moisture protection.





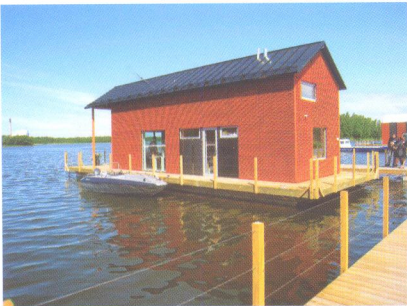
### Design & Decor':

EPS Foams are widely used in decorating ceremonies of distinct social and corporate events. Due to the flexibility in size and shape, it is an attractive material to the artists and designers. Moreover, EPS foams are also very popular in interior decoration and structural décor'.



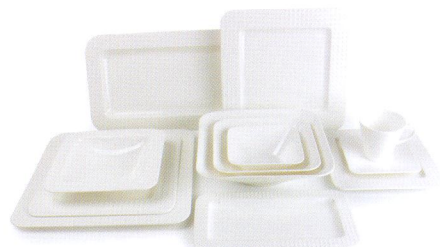
### Floating:

EPS blocks have been used in the construction of floating docks, houses and swim platforms for many years. EPS floats and thus it becomes the ideal product for a variety of floatation applications.



### Others:

Beside general practices, EPS Foams and sheets have manifold use in todays world.





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*Other Concerns of* **ADVANCED GROUP**

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