

A Product by Pak Polystyrene

**DIAMOND EP-300**

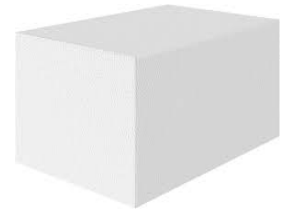
(Flame Retardant)

**Characteristics:**

- Sphere like pearl
- Good Shock Absorbency
- Low Volatility
- No Hard core
- Antistatic
- Good Fusion & preform
- Grade

**Applications:**

Insulation Blocks,  
Insulation Sheets for  
Construction Sector &  
packaging items etc.



**Product Description**

Type	Grade	Bead Sizes Range	Moisture % Max	Bulk Density g/l	Applications
Diamond EP-300 (Flame Retardant)	XL	1.40-2.40	0.50	11-14	Insulation blocks, large shape articles
	L	1.19-2.00	0.50	11.5-15	Insulation blocks, large shape articles
	M	1.00-1.66	0.50	12-16	Insulation blocks construction
	MS	0.84-1.41	0.50	12.5-18	Fish boxes contour molding
	S	0.71-1.00	0.50	13-20	Contour molding > 15mm
	SS	0.50-0.84	0.50	14-22	Contour molding > 15mm

**Typical Properties For EP-300 (F.R)**

Properties	Test Method	Unit	Value
Appearance			Pearl-like Sphere
Specific gravity	ASTM D-792		1.03
Bulk Density	ASTM D-1895	Kg/l	0.6
Humidity Content		% max	2
Free Monomer Content		% max	0.35



Product Description

- Expandable polystyrene (EPS) a branch of polystyrene resin containing approximately 6 wt% pentane as the blowing agent.

All products are supplied in spherical beads with a bulk density of approximately 11-22 g/ l.

Product Safety

- During processing of Polystyrene HI-861, small quantity of Styrene Monomer may be released into the atmosphere. At styrene vapor concentrations below 20 ppm, no negative health effects are expected. In our experience, the concentration of styrene does not exceed 1 ppm in good ventilate workplace.

Storage & handling

- Store in a space indoors with an air ventilation duct in the lower part of the room. EPS' blowing agent stays on the floor or in the water pit because it is heavier than air. Therefore, an air ventilation duct must be installed to maintain a gas density of 1.5% or lower. Gas continues to be generated even in storage. Electrical systems in the storage room should be anti-explosive. and no fire should come near the storage area When processing, suffocation from the gas and accidents caused by sparks could occur. Sufficient Ventilation and a temperature ignition gauge is needed. Do not store outdoors or in high temperature areas. (Maintain storage temperature at under 15 °C)

When using a hopper loader. use all the material if possible. Remove left over material from the hopper. Also, fill the hopper with air before using to load EPS. EPS produces toxic fumes when burning. Wear protective gear, such as a gas mask.

General information

- It is recommended to keep the product in a dry & well ventilated store between 15-20°C. During the processing of Expandable Polystyrene any spark or flame must be avoided and smoking should be forbidden. An adequate electrical grounding of machinery and of pneumatic transport lines is recommended.

For further information concerning storage, packaging and processing precautions please refer to "Material Safety Data Sheet"

Packing & Storage

- Diamond products are packaged in woven bags. protective PE liner; it is used to maintain product shelf life by retaining the blowing agent. Diamond products should be stored in a cool place (maximum temperature 80°F). In the unopened bulk containers, the typical shelf life after receipt is 30-60 days. The containers should be protected from rain, snow, frost, direct sunlight and mechanical damage.

**Note:**

The information & recommendations in this publications are, best of our knowledge, reliable, suggestions concerning used or applications are only the opinion of Pak Polystyrene. and users should perform their own test to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting results, Pak Polystyrene MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MANUFACTURING AND FITNESS FOR PURPOSE, other than that the material conforms to the applicable current standard specification statement herein, therefore should not be construed as representations or warranties.