

## About Packing

EPS is packed in an outer polypropylene woven bag or kraft-plastics laminated bag with an inner modified PE/PA film bag.  
**Package weight:** 25kg / 500kg / 650kg / 750kg / 800kg / 850kg / 975kg / 1000kg / 1200kg

Packing	Weight/kg	20'fcl capacity	40'fcl capacity
Paper bag (Laminated Kraft paper)	25	17.00MT	24.00MT
	800	16.00MT	24.00MT
	850	17.00MT	25.50MT
Flecon bag (Super sack)	975	975MT	19.50MT
	1000	1000MT	20.00MT
	1200	1200MT	24.00MT

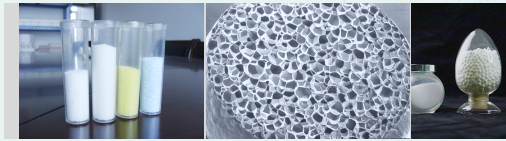
## About Transportation

Transport vehicles should not carry other materials to prevent the beads from contamination. Combustible materials and volatile organic solvents must never be carried in the same vehicle for safety and avoiding damage. The beads should be packed to avoid sun-scorched and rain-drenched, especially in summer.

## About Storage

EPS contains volatile and combustible composition and should therefore be kept far away from any source of ignition, preferably in a cool, dry and well-ventilated storeroom below 25°C out of direct sunlight. The effective shelf life is 3 months at the temperature below 25°C, however the ideal material should be used within 1 month from manufacturing. Once the package is unfolded, the blowing agent will be volatilized rapidly. EPS should be therefore used immediately after the bags opened to avoid the reduction of expansion ratio or losing effectiveness.

Reasonable weight loss: EPS contains high-volatility blowing agent (C5). It is therefore normal to lose weight in the first half month after the product leaving the factory.



# 杭州伊索弗科技有限公司

## Hangzhou Epssole Technologies Co.,LTD.



## What is EPS?

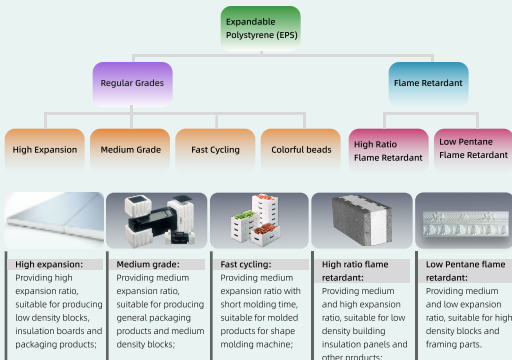
EPS (Expandable Poly Styrene) is a lightweight, rigid, plastic foam insulation material produced from solid particles of polystyrene. Expansion is achieved by virtue of small amounts of pentane gas dissolved into the polystyrene base material during production. The gas expands under the action of heat, applied as steam, to form perfectly closed cells of EPS. These cells occupy approximately 40 times the volume of the original polystyrene bead. The EPS beads are then molded into appropriate forms suited to their application. Products made from foamed polystyrene are nearly ubiquitous, for example packing materials, insulation, and foam drink cups.

## What the properties:

Main Component: 92% - 96% polystyrene  
 Appearance: Colorlessly transparent or opaque tiny beads  
 Density: about 1.04  
 Bulk density: about 0.6



## How do we classify EPS?



## What are the wild-spread applications:

- 1.Packaging: i.e.: Vegetable and fruit box, Fish box, Electronics packaging;
- 2.New Building Material: i.e.: Sandwich panel, 3D panel, Brick insert, insulated Concrete Foam (ICF)
- 3.Plastic Foam Floatation: i.e.: Float
- 4.Decorating Material: i.e.: Cornices, Ceiling tiles, Articles in arts and crafts for advertisement and decoration;
- 5.Full Mould Casting: i.e.:
- 6.Protecting material: i.e.: Anti-freeze pad to cushion foundations of roads and railways in high cold region;
- 7.Filter material: i.e.: Applicable in medium and small scaled water supply system;
- 8.Other applications: i.e.: Applicable in seeding nurseries for hydroponics; Mixed with clay and cement to manufacture lightweight wall tiles and cement castings; As filling material for pillow.....

Specification	A-Standard grade		Expansion Ratio(ave time)	Foam Density	Applications
	Bead Size(µmeters)	mm			
A-108	100-140	70-90	70-90	11-14	Block and low density products
A-104	0.85-1.25	40-55	40-55	12-15	Products more than 12mm thickness
A-106	0.70-1.00	40-55	60-75	13-17	Medium density packing products
A-106	0.50-0.80	35-50	55-70	14-18	Products more than 1mm thick
A-107	0.40-0.60	30-45	50-65	15-18	Products more than 1mm thick
A-108	0.30-0.50	25-30	35-50	20-28	Moulding and special products on overheads

Specification	B-High expansion grade		Expansion Ratio(ave time)	Foam Density	Applications
	Bead Size(µmeters)	mm			
B-103	100-140	70-90	100-200	10-12.5	Electronic packing,backoutwork, board,especially used for low-density block
B-104	0.85-1.25	40-55	100-180	11-14	
B-105	0.70-1.00	40-55	100-160	12.5-13	
B-106	0.50-0.80	35-50	100-150	13-16	
B-107	0.40-0.60	30-45	60-90	20-28	
B-108	0.30-0.50	25-30	40-70	18-20	

Specification	C-Self extinguishing grade		Expansion Ratio(ave time)	Foam Density	Applications
	Bead Size(µmeters)	mm			
C-102	1.00-1.40	50-70	100-200	14-20	Block
C-103	1.00-1.40	40-55	60-90	15-20	Block and big packaging product
C-104	0.85-1.25	40-55	40-55	15-20	Block and big packaging product
C-105	0.70-1.00	40-60	40-60	17-20	Block and medium density packing product
C-106	0.50-0.80	30-50	30-50	20-30	High density block and special products
C-107	0.40-0.60	25-40	25-40	25-30	High density block and special products
C-108	0.30-0.50	20-40	20-40	25-30	High density block and special products

Specification	D-Fast cycling grade		Expansion Ratio(ave time)	Foam Density	Applications
	Bead Size(µmeters)	mm			
D-103	100-140	70-90	60-70	14-17	Business packaging,block and Chewing packaging and high density products
D-104	0.85-1.25	50-65	50-65	15-20	
D-105	0.70-1.00	40-60	40-60	17-20	
D-106	0.50-0.80	35-55	35-55	18-20	

Specification	E-Flame retardant grade graphite		Expansion Ratio(ave time)	Foam Density	Applications
	Bead Size(µmeters)	mm			
E-104	0.85-1.25		100-240	10-13	Widely used in building insulation materials, thermal insulation materials, etc.
E-105	0.70-1.00		100-240	13-15	

Specification	F-32 European standard grade high polyethylene		Expansion Ratio(ave time)	Foam Density	Applications
	Bead Size(µmeters)	mm			
F-110	1.1-1.60				Thermal insulation for construction and industry,perouse insulation
F-109	1.00-1.40				
F-108	0.75-1.10		10-30kg/m <sup>3</sup>		
F-107	0.50-0.80				

Specification	G-33 graphite polyethylene		Expansion Ratio(ave time)	Foam Density	Applications
	Bead Size(µmeters)	mm			
G-110	1.1-1.60				Thermal insulation for construction and industry
G-109	1.00-1.40				
G-108	0.75-1.10		10-30kg/m <sup>3</sup>		
G-107	0.50-0.80				