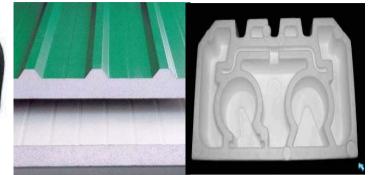
EPS (Expandable Polystyrene)







It is a white polystyrene bead with a blowing agent. The application of EPS; the expanded polystyrene foam is used for isolation board and packing material for shock-absorbing.

LG EPS

LG Chem. produces mainly two types of EPS resin as general and flame retardant in the same process. The flame retardant type and normal type are distinguished by the recipes. The EPS plant has attained international recognition for own product's qualities with the acquisition of ISO 9001 certification.

: 92~94 %

: Max. 0.7%

EPS Composition & General

- Poly Styrene
- Blowing Agent
- : 5.5~7 % : Max. 500 ppm
- Residual Ethyl Benzene : 2,000~4,000 ppm
- Coating agent
- Moisture content

EPS General

- : White Solid Beads • Appearance
 - : 1.04 Approximately
- Specific Gravity • Appearance Gravity
- : 0.60 Approximately

EPS

Class	Applications				
Shape Molding	Shock absorbing Package				
	•Fruit & Vegetable Box				
	•Fish Box				
	•Float				
	•Electronic parts				
	•Cup				
	Insulation board				
Block Molding	•S/W Panel				
	Lightweight Filler				

EPS Products

Туре	Flame re	tardants	General purpose			
Grade	120	160	240	320		
Size(mm)	0.96~1.74	0.68~1.30	0.59~1.00	0.35~0.71		
Usage	Block m	nolding	Shape molding			

LG EPS Grades & Applications

Property of Product	Grade	Particle Size (Φ: mm)	Recommendable Density (g/l)	Recommendable Density (Ibs/ft)	Typical Application									
					Insulatio n Board	Part	Medium Part Packing	Small Part Packing	Cup	Fruit Box	Fish Box	Floats	Pad	Civil Eng.
General	B120	0.96~1.74	15.0~20.0	0.93~1.25										
	B160	0.68~1.30	15.0~20.0	0.93~1.25										
Purpose	B240	0.59~1.00	15.0~25.0	0.93~1.55										
	B320	0.35~0.71	17.0~30.0	1.05~1.86										
	R120	0.96~1.74	13.0~17.0	0.81~1.05										
Self Extinguish	R160	0.68~1.30	14.0~20.0	0.87~1.05										
	R240	0.59~1.00	15.0~25.0	0.93~1.55										
	R320	0.35~0.71	17.0~30.0	1.05~1.86										

Physical Properties of Molded Products

Properties	Test method DIN	Unit	Density of the end product(g/l)					
		onit	12	15	20	30		
Maximum thermal conductivity	56~612	mW/m.k	41	39	36	34		
Maximum permeability to steam	53~429	µg/m²sec	400	300	200	100		
Minimum resistance to pressure (relative Crushing 10%)	53~421	kPa	60	80	120	190		
Minimum flexural stress at break	53~423	kPa	140	200	280	400		
Maximum temperatures for less than 5% warping	53~424	°	80	80	85	85		