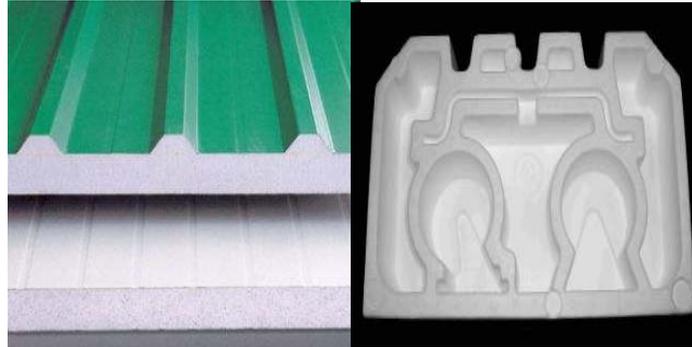


## EPS (Expandable Polystyrene)



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.

### EPS Composition & General

- Poly Styrene : 92~94 %
- Blowing Agent : 5.5~7 %
- Residual Ethyl Benzene : Max. 500 ppm
- Coating agent : 2,000~4,000 ppm
- Moisture content : Max. 0.7%

### EPS General

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



**Physical Properties of Molded Products**

Properties	Test method DIN	Unit	Density of the end product(g/l)			
			12	15	20	30
Maximum thermal conductivity	56~612	mW/m.k	41	39	36	34
Maximum permeability to steam	53~429	$\mu\text{g}/\text{m}^2\text{sec}$	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	$^{\circ}\text{C}$	80	80	85	85