

Lightweight Green Solution HOWPOL EPP (Expanded Polypropylene)

Based on LOTTE Chemical's own PP foaming technology, HOWPOL EPP bead foam is a non-toxic, eco-friendly and recyclable product, as it is foamed with non-crosslinked plastics in an eco-friendly CO_2 process. And it can produce a wide range of molding products with different shapes and colors, while exhibiting excellent mechanical property and light weight. It is used not only for automotive parts and electronics packaging, but also for special applications such as marine buoys.

General

- HP-B4.5P
- HP-B11P
- HP-B15P
- HP-B30P
- HP-W11P
- HP-W15P
- HP-W30P

Functional

- HP-B15P_AS - HP-P13.5P_AS - HP-Bl22P_AS
- HP-B22P_EC - HP-Gr15P_FR

HRF (High Resilience Foam)

HP HRF-B10P
HP HRF-B30P
HP HRF-W30P
HP HRF-W40P

EPE (Expanded PE)

- HP EPE-W20P

Manufacturing technology of EPP marine buoys

An eco-friendly EPP (expanded polypropylene) with buoyancy-conversion property that replaces the existing EPS (expanded polystyrene)







Application of highelastic particle foam EPP substitute



A reduction in damage that stems from the frequently changing marine environment and rope tightening



Improved processability A variety of designs available, cost

competitiveness





2020 Korean NET Certification



Expanded Polypropylene Solution		
Product	Key Features	Applications
General	 Non-crosslinked PP foam material Crosslinking agent and blowing agent not included Excellent resistance against repeated impacts Reusable & Various colors and magnifications 	Delivery box (Reusable/Returnable), Self-assembly furniture, Bee hive, Toy
		Sun-visor, Energy absorber, Tool box, spacer
Functional	• Anti-static: Surface resistance $10^{10-12}\Omega$ /sq. (Various colors)	E&E and component packaging (Anti-static)
	• Semi-conducting: Surface resistance $10^5\Omega/sq$. under (Black)	Pads for semiconductor manufacturing, High precision E&E component (Anti-static)
	 Flame retardant: UL94 HBF ~ HF-1 (Halogen/Hon-halogen, Black unavailable) 	Building & Construction, Interior parts
High elasticity (HRF: High Resilience Foam)	 Excellent elasticity (bending strength, elongation at break) and cushioning More eco-friendly than PUF* (no toxic gas generated during combustion), Light weight, excellent heat aging resistance (yellowing) 	Seat cushion, Buoy, Sporting goods, Marine packing (dunnage), Cooler box

* PUF-Polyurethane foam

Key Features & Properties

Key features



Properties (EPP, HRF, EPE)



Flexural Test







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