

Based on LOTTE Chemical's own PP foaming technology, EPP bead foam is a non-toxic, eco-friendly and recyclable product, as it is foamed with non-cross-linked plastics in an eco-friendly CO₂ 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.



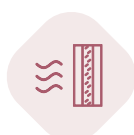
Recyclability



High resilience



Durability



Heat insulation



Sound insulation



Chemical resistance



Light-weight

Howpol® PRODUCT PORTFOLIO

1. Howpol® EPP General Expanded Polypropylene

	General	Anti-static	Semi-conducting	Flame retardant	Low friction	Anti-bacterial
Expansion ratio	10 ~ 75times	13.5 ~ 40times	10 ~ 40times	10 ~ 40times	15 ~ 75times	15 ~ 40times
Characteristics	General	Surface resistivity <10 ¹² Ohm/sq.	Surface resistivity <10 ⁴ Ohm/sq.	UL94 HBF "HF-1", "HBF"	Low-density, Low friction sound	Anti-bacterial
Grade	<ul style="list-style-type: none"> • HP-B11P • HP-B15P • HP-W11P • HP-W15P 	<ul style="list-style-type: none"> • HP-B15P_AS • HP-P13.5P_AS 	<ul style="list-style-type: none"> • HP-B15P_EC • HP-B22P_EC 	<ul style="list-style-type: none"> • HP-Gr15P_FR 	<ul style="list-style-type: none"> • HP-Gr45P_LS • HP-Gr60P_LS 	Under development
Color	All colors available		Black	All colors available		

2. Howpol® HRF EPP High Resilience Expanded Polypropylene

	High resilience
Expansion ratio	10times ~45times
Characteristics	High resilience, Cushioning property & Impact strength
Grade	<ul style="list-style-type: none"> • HP HRF-B10P • HP HRF-B30P • HP HRF-W30P • HP HRF-W40P
Color	All colors available

※ Grade

HP-B 11P

Howpol

Color

Expansion ratio

B Black
W White
G Gray
Gr Green
P Pink
Pu Purple

Howpol® - Applications

Automotive			
	Trunk tool box	 Bumper energy absorber	 Interior pad
Packaging			
	Electronic goods/parts packaging (Anti-static, FR)		Precision Electronic goods/parts packaging (Semi-conducting)
Consumer / Industrial purpose			
	Sofa fillings (Low friction)		Buoy (High Resilience), Bee hive

Manufacturing technology of EPP marine buoys

| Eco-friendly EPP with buoyancy-conversion property that replaces EPS |

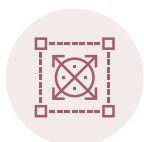
2020 Korean NET Certification



High resilience
particle foam
(EPS substitute)



reduction in
damage from
changing marine
environment
and rope tightening



Variety of designs
available, Cost
competitiveness

