

Howpol® Eco-friendly Expanded Polypropylene

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 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.

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	• HP-B11P • HP-B15P • HP-W11P • HP-W15P	• HP-B15P_AS • HP-P13.5P_AS	• HP-B15P_EC • HP-B22P_EC	• HP-Gr15P_FR	• HP-Gr45P_LS • HP-Gr60P_LS	Under development
Color	All colors available		Black	All colors available		

2. Howpol® HRF EPP High Resilience Expanded Polypropylene

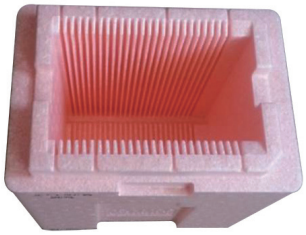
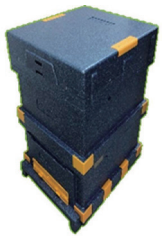
	High resilience
Expansion ratio	10times ~45times
Characteristics	High resilience, Cushioning property & Impact strength
Grade	• HP HRF-B10P • HP HRF-B30P • HP HRF-W30P • HP HRF-W40P
Color	All colors available

※ Grade

HP-B 11P

- Howpol
- Color
  - B Black
  - W White
  - G Gray
  - Gr Green
  - P Pink
  - Pu Purple
- Expansion ratio

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

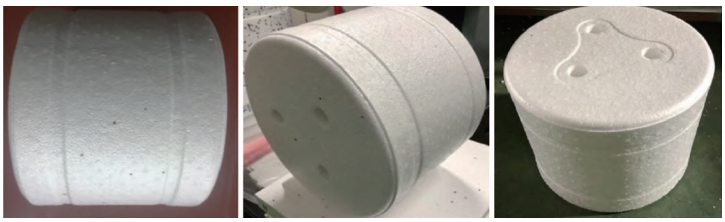
| Eco-friendly EPP with buoyancy-conversion property that replaces EPS |

High resilience particle foam (EPS substitute)

reduction in damage from changing marine environment and rope tightening

Variety of designs available, Cost competitiveness

2020 Korean NET Certification



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