

KUMHO EPS

(Expandable Polystyrene)



1. Product Introduction

Kumho EPS, is approved by UL, FDA and adheres to domestic food sanitation regulations, guaranteeing quality and stable performance. From 0.3mm~0.5mm cup formative micro particles to over 2.0mm molded product formative macro particles, Kumho produces a variety of product grades appropriate for heat-resistance, shock absorption, construction materials and packaging.

Kumho is developing and producing energy efficient products, also.

2. Characteristics of Kumho EPS

- Good shock absorbency
- Easy to form and process.
- Highly water-resistant with a low water absorbency rate.
- Low heat conductivity, good heat insulation and chemical-resistance.
- Good electrical insulation.

3. Storing and Handling

- Store in a space indoors with an air ventilation duct in the lower part of the room. EPS's foaming agent stays on the floor or in the water pit because it is heavier than air. Therefore an air ventilation duct must be installed to maintain a gas density of 1.5% or lower.
- It produces static because it has a foaming agent in it, unlike other resins. When storing or transporting, static removing equipment should be utilized to prevent fire caused by static discharge.
- Gas continues to be generated even in storage. Electrical systems in the storage room should be anti-explosive, and no fire should come near the storage area.
- When processing, suffocation from the gas and accidents caused by sparks could occur. Sufficient ventilation and a temperature ignition gauge is needed.
- Do not store outdoors or in high temperature areas. (Maintain storage temperature at under 15°C)
- When using a hopper loader, use all the material if possible. Remove left over material from the hopper. Also, fill the hopper with air before using to load EPS.
- EPS produces toxic fumes when burning. Wear protective gear, such as a gas mask.



KUMHO EPS

(Expandable Polystyrene)



4. Typical Properties for EPS

Class	Grade	Diameter (mm)	Applications	Expandable Density (g/l)	Optimum Expansion Multiple
General Purpose	EPS 12 SP	1.1 ~ 1.5	Ice box, Big buoys	14 ~ 17	60 ~ 70
	EPS KD16	0.9 ~ 1.1	Fish and fruit containers, Ice box, Small buoys	15 ~ 18	55 ~ 65
	EPS KD20	0.6 ~ 0.9	Home electric packaging materials, Fish box	17 ~ 20	50 ~ 60
	EPS KD30	0.5 ~ 0.6	Thin-walled molded products	20 ~ 25	40 ~ 50
Low Pentane	EPS LP16	0.9 ~ 1.1	Fish and fruit containers, Ice box, Small buoys	17 ~ 20	50 ~ 60
	EPS LP20	0.6 ~ 0.9	Home electric packaging materials, Fish box	20 ~ 25	40 ~ 50
	EPS LP30	0.5 ~ 0.6	Thin-walled molded products	25 ~ 33	30 ~ 40
Self- Extinguish	SEPS N12	1.1 ~ 1.5	Self-extinguishing block, Sandwich panel, Construction materials	14 ~ 17	60 ~ 70
	SEPS N16	0.9 ~ 1.1		15 ~ 18	55 ~ 65
	SEPS N20	0.6 ~ 0.9		17 ~ 20	50 ~ 60
	SEPS N30	0.5 ~ 0.6		20 ~ 25	40 ~ 50
	SEPS FD16	0.9 ~ 1.1		15 ~ 18	55 ~ 65
	SEPS FD20	0.6 ~ 0.9		17 ~ 20	50 ~ 60
	SEPS FD30	0.5 ~ 0.6		20 ~ 25	40 ~ 50
Energy Saving	EPOR 16	0.9 ~ 1.1	Self-extinguishing block, Sandwich panel, Construction materials	20 ~ 25	40 ~ 50
	EPOR 20	0.6 ~ 0.9		20 ~ 25	40 ~ 50
	EPOR 20 W	0.6 ~ 0.9		25 ~ 33	30 ~ 40
Special Molded Products	SEPS FD20 V	0.6 ~ 0.9	Self-extinguishing shapes, Home electric packaging materials	17 ~ 20	50 ~ 60
	SEPS N20 J	0.6 ~ 0.9		17 ~ 20	50 ~ 60
	SEPS N20 JJ	0.6 ~ 0.9		17 ~ 20	50 ~ 60
Low Foaming	EPS LENC 25	0.9 ~ 1.1	Helmets, Air conditioner fan holder, Life jackets	40 ~ 67	15 ~ 25
	EPS LEYD 25	0.6 ~ 0.9		40 ~ 67	15 ~ 25
Cup	EPS CS40	0.3 ~ 0.5	Noodle cups, Cold beverage cups	50 ~ 100	10 ~ 20
	EPS CS40 S	0.3 ~ 0.5	Filling Materials	50 ~ 100	10 ~ 20
	EPS CS50	0.2 ~ 0.4		50 ~ 100	10 ~ 20
Color	SEPS 20 P	0.6 ~ 0.9	Colored molded products	20 ~ 25	40 ~ 50
	SEPS 20 Y	0.6 ~ 0.9		20 ~ 25	40 ~ 50
	EPS 30 Y	0.5 ~ 0.6		20 ~ 25	40 ~ 50
	SEPS G20	0.6 ~ 0.9		20 ~ 25	40 ~ 50
	SEPS G30	0.5 ~ 0.6		20 ~ 25	40 ~ 50

EPS Sales Team

☎ 82-2-6303-3239

☎ 82-2-6303-3259

🌐 <http://www.kkpc.com>

Ulsan Synthetic Resin Laboratory

☎ 82-52-279-8817

☎ 82-52-279-8709

