



EPS- Self Extinguishing Grade(Non-HBCD)

A. Characteristic

<p>Pre-expansion:</p> <ul style="list-style-type: none"> ● Comment steam pressure ● Shorter intermediate aging time in silo ● Wide processing window (suitable for both low and high density application) 	<p>Molding:</p> <ul style="list-style-type: none"> ● Excellent fusion and surface finish ● Versatile- suitable for wide range of products
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B. Properties of beads

	SB-FR	S1-FR	S2-FR	S3-FR	M-FR	S-FR
Beads Size	1.2-1.8mm	0.9-1.3mm	0.7-1.0mm	0.5-0.8mm	0.9-1.8mm	0.5-1.0mm
Density	15-20 g/l	16-22 g/l	17-25 g/l	17-30 g/l	15-22 g/l	17-30 g/l
Application	Construction / Block					
Humidity	< 2.0%					
Specific Gravity	Approx. 1.03					
Pentane Level	5.5 - 7.0%					
Fire Rating	UL 94, HF-1					

C. Processing conditions

No	Item	Self Extinguishing Grade
1	Pre-expansion Steam Pressures	0.1 - 0.3 Bar
2	Chamber Temperature	95 - 105 °C
3	Aging Time (Low Density)	6 - 12 Hours
	Aging Time (Mid Density)	10 - 16 Hours
	Aging Time (High Density)	14 - 26 Hours
4	Molding Steam Pressure (Short Aging)	1.0 - 1.3 Bar
	Molding Steam Pressure (Mid Aging)	1.1 - 1.4 Bar
	Molding Steam Pressure (Long Aging)	1.2 - 1.5 Bar



D. Properties of molded foams

Properties		Unit	Self Extinguishing Grade		
Density		g/l	≥14	≥16	≥20
Compressive Stress (10% compression)		Kg/cm ²	0.8~1.2	0.8~1.4	1.0~1.6
Flexural Strength		Kg/cm ²	3.1~3.5	3.1~3.8	3.1~4.0
Tensile Strength		Kg/cm ²	1.3~1.6	1.3~1.7	1.3~1.8
Thermal Conductivity		Kcal/mh°C	0.035~0.038	0.035~0.038	0.035~0.038
Chemical Resistance	Acid	--	Good	Good	Good
	Alkali	--	Good	Good	Good
	Solvent	--	Poor	Poor	Poor