

# **EPS- Self Extinguishing Grade(Non-HBCD)**

#### **A.** Characteristic

### Pre-expansion:

- Comment steam pressure
- Shorter intermediate aging time in silo
- Wide processing window (suitable for both low and high density application)

## Molding:

- Excellent fusion and surface finish
- Versatile- suitable for wide range of products

### 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		

Ming Dih Industry Co., Ltd.

OFFICE: NO.94, CHI-HSIEN FIRST ROAD, SHIN SHING AREA, KAOHSIUNG, TAIWAN R.O.C.

Tel: +886-7-7872411 Fax: +886-7-7872414 / 7876411



## D. Properties of molded foams

Properties		Unit	Self Extinguishing Grade		
Density		g/l	≧14	≧16	≧20
Compressive Stress (10% compression)		Kg/cm2	0.8~1.2	0.8~1.4	1.0~1.6
Flexural Strength		Kg/cm2	3.1~3.5	3.1~3.8	3.1~4.0
Tensile Strength		Kg/cm2	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

Ming Dih Industry Co., Ltd. OFFICE: NO.94, CHI-HSIEN FIRST ROAD, SHIN SHING AREA, KAOHSIUNG, TAIWAN R.O.C.

Tel: +886-7-7872411 Fax: +886-7-7872414 / 7876411