

InSphere® 1020F

Expanded Polystyrene

Synthos S.A.

Message:

InSphere® type 0513F, 0814F and 1020F is self-extinguishing expandable polystyrene (EPS) with a reduced thermal conductivity. The materials are formed by spherical polystyrene particles that contain a flame retardant system and a hydrocarbon blowing agent. Their surface is treated against gluing during processing and the formation of electrostatic charge. Due to the content of halogenated flame retardant and the residual blowing agent, the product is unsuitable for objects intended for direct contact with food. InSphere® 1020F, 1640F is mainly used for production of high volume blocks with low-density; of cutted boards and profiles from the blocks for a thermal insulation e.g. building objects.

General Information			
Additive	Blowing Agent		
	Flame Retardant		
Features	Flame Retardant		
	Halogenated		
	Self Extinguishing		
Uses	Insulation		
	Profiles		
Appearance	White		
Forms	Spheres		
Physical	Nominal Value	Unit	Test Method
Apparent Density ¹	0.02 to 0.04	g/cm ³	Internal Method
Moisture Content	< 10000	ppm	Internal Method
Particle Size - >95% between	1.00 to 2.00	mm	Internal Method
Reaction to Fire			
--	B1		DIN 4102
--	Class E		EN 13501-1
Blowing Agent	< 7.0	wt%	Internal Method
NOTE			

1. The typical bulk density indicates values obtained during single-step pre-foaming on continuous pre-foaming devices. Lower values of bulk density can be achieved only after multiple pre-expansion.

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