

InSphere® 0814F

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® 0814F is mainly used for production of blocks with medium and higher density; of cutted boards and profiles from the blocks for a thermal insulation e.g. building objects or in packaging technology.

| General Information | | | |
|-------------------------------|--------------------|-------------------|-----------------|
| Additive | Blowing Agent | | |
| | Flame Retardant | | |
| Features | Flame Retardant | | |
| | Halogenated | | |
| | Self Extinguishing | | |
| Uses | Insulation | | |
| | Packaging | | |
| | 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 | 0.800 to 1.40 | 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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