

**STYREX FM Expandable Polystyrene****General description**

STYREX EPS FM type is a flame retardant expandable polystyrene for shape moulding and block moulding applications, consisting of free-flowing spherical beads containing a polymeric flame retardant additive and pentane as expansion agent.

| Product | Bead Size Range<br>95% between | Applications   |
|---------|--------------------------------|--|
| 607FM   | 0,5-0,8 mm                     | Production of expanded foam mouldings with wall thickness > 6 mm |
| 710FM   | 0,6-1,1 mm                     | Production of expanded foam mouldings with wall thickness > 8 mm |
| 1016FM  | 0,9-1,8 mm                     | Production of expanded foam blocks or thick walled mouldings     |

STYREX FM materials contain a polymeric flame retardant and conform to DIN4102/B1/B2. Details and certifications can be supplied on request.

**Processing guidelines**

| Product | Typical density<br>range | Recommended intermediate aging period |
|---------|--------------------------|---------------------------------------|
| 607FM   | 23-50 kg/m <sup>3</sup>  | 24-48 h                               |
| 710FM   | 20-30 kg/m <sup>3</sup>  | 24-48 h                               |
| 1016FM  | 15-25 kg/m <sup>3</sup>  | 24-48 h                               |

Detailed processing advice can be provided on request.

*Pre-expansion & Moulding*

With state-of-the art prefoaming equipment the above mentioned densities can be reached. Lower densities possible with 2<sup>nd</sup> pre-foaming step. STYREX FM materials can be processed on commercial block moulds or shape-moulding equipment.

**Transport, packaging and storage**

STYREX EPS is classified as dangerous goods UN2211, Class 9.

STYREX EPS is delivered in 1050KG cardboard octabins on pallets. The octabins should always be stored in a dry and cool place (< 20grC) and be protected from weather (rain, wind, frost, sun etc). For safety reasons octabins should not be placed on each other.

The material should be used up within 3 months after delivery. After opening of the packaging it should be used up as soon as possible.

**Safety notes**

Due to the pentane present in EPS flammable mixtures can be formed during storing and processing. It is recommended to provide sufficient floor-ventilation and to avoid sources of ignition. Further information can be found in the Material Safety Data Sheet.

**Food applications**

STYREX FM types shall not be used for products in direct contact with food.

**Quality**

We operate a system of Good Manufacturing Practice, and our Quality Management System is certified to ISO 9001:2000 and ISO 14001:2004.

**N.B.**

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