

**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 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 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.**

Information contained in this data-sheet is given in good faith and to the best of the knowledge and belief of Synbra Technology by (The Company). The properties of plastics set out herein are typical values and do not constitute a specification. It is at all times the responsibility of the customer to ensure that materials supplied by the Company are suitable for the purpose for which they are intended. The Company accepts no liability whatsoever arising out of the use of the information herein contained or the use, application, adaptation or processing of the products herein described.