

Technical Data Sheet

Product Description

FM EPS F100

F100 is an EPS class with flame retardant, which can be produced in density ranges between 12kg/m³ – 20kg/m³, suitable for high quality block molding and shape molding with a section thickness of 20 mm and higher. F100 is used for cases and packaging products, insulation applications that require fire classification, in industrial applications inside proton brick with impact absorber and for light concrete applications.

Characteristic	Value
<i>Bead size (diameter)</i>	1.2 – 1.8 mm
<i>Blowing agent – pentane</i>	> 5.8 %
<i>Residual styrene monomer</i>	Less than 1000ppm
<i>Moisture content</i>	Less than 1%
<i>CFC content</i>	Nil
<i>Flammability</i>	DIN4102 B1
<i>Density</i>	12 – 20 kg/M ³

To get densities below 12kg/M³, it is preferred to pre-expand twice.

Notes: Values shown are averages and are not to be considered as product specification. These values may shift slightly as additional data is accumulated.

Storage

F100 should be stored in well-ventilated storage areas with temperatures preferably not exceeding 25°C. Protect against unsuitable weather conditions and direct sun light. Partially used containers are to be closed properly while paying attention to avoid space between the raw material and the lining. Once opened use on short notice. In order to maintain the expansion potential it is recommended to start the transformation within one month after delivery (if product is unopened).

Processing conditions

- All processing conditions might change according to the age of the materials and the kind of equipment used.
- From expansion of the beads to block or mold shaped products, the entire transformation process is managed with water vapor.
- F100 is expandable in a single expansion at densities between 12kg/m³–20kg/m³. The minimum density achievable may vary depending on the expander type and process conditions.
- Temporary storage time in silos: 5 to 24 hours depending on the density, atmosphere and process conditions.

Caution

- While using F100 avoid any sparks, flames and/or static electricity. Grounding of all equipment and machines is required.
- Ensure ventilation during the storage and process phases.
- F100 is not suitable for food contact applications. Doing so is illegal.
- Please make sure to read the "Material Safety Data Sheet" (MSDS), which contains details of required safety measures.

Packaging

F100 is supplied in pellet form packed in 25kg bags on 1.375kg pallets or in 1.100kg big bags.



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