

# Technical Data Sheet

## Product Description

### FM EPS F400

**F400** is an EPS class with flame retardant, which can be produced in density ranges above 18kg/m<sup>3</sup> suitable for shape molding with good fusion and surface finish. F400 is used for small parts and thin walls with good surface finish, cases and packaging products, insulation applications that require fire classification, in industrial applications inside proton brick with impact absorber and for light concrete applications.

<b>Characteristic</b>	<b>Value</b>
<i>Bead size (diameter)</i>	0.4 – 0.7 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>	Above 18 kg/M <sup>3</sup>

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

F400 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.
- F400 is expandable in a single expansion at densities above 18 kg/m<sup>3</sup>. The minimum density achievable may vary depending on the expander type and process conditions.
- Temporary storage time in silos: less than 12 hours depending on the density, atmosphere and process conditions.

## Caution

- While using F400 avoid any sparks, flames and/or static electricity. Grounding of all equipment and machines is required.
- Ensure ventilation during the storage and process phases.
- F400 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

F400 is supplied in pellet form packed in 25kg bags on 1.375kg pallets or in 1.100kg big bags.



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