

Technical Data Sheet

Product Description

FM EPS R400

R400 is an EPS class that can be produced in density ranges above 18kg/m³ suitable for high quality block molding and shape molding with a section thickness of 10 mm and higher. R400 is used for cases and packaging products suitable for food contact, insulation applications that do not require fire classification, industrial applications inside proton brick with impact absorber and for light concrete applications.

Characteristic	Value
<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 0.4%
<i>CFC content</i>	Nil
<i>Density</i>	above 18kg/m ³

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

R400 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.
- R400 is expandable in a single expansion at densities above 18kg/m³. The minimum density achievable may vary depending on the expander type and process conditions.
- Temporary storage time in silos: max. 12 hours depending on the density, atmosphere and process conditions.

Caution

- While using R400 avoid any sparks, flames and/or static electricity. Grounding of all equipment and machines is required.
- Ensure ventilation during the storage and process phases.
- R400 is suitable for food contact applications.
- Please make sure to read the "Material Safety Data Sheet" (MSDS), which contains details of required safety measures.

Packaging

R400 is supplied in pellet form packed in 25kg bags on 1.375kg pallets or in 1.100kg big bags.



Bultweg 11
8346 KA De Bult
The Netherlands

Broekslagen 6
8331 TJ Steenwijk
The Netherlands

F: +31 521 52 20 84
T: +31 521 52 00 41

www.fmplastics.nl
info@fmplastics.nl