

# Technical Data Sheet

## Product Description

### FM EPS R300

**R300** is an EPS class that can be produced in density ranges between 13kg/m<sup>3</sup> – 25kg/m<sup>3</sup> suitable for high quality block molding and shape molding with a section thickness of 10 mm and higher. R300 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.

<b>Characteristic</b>	<b>Value</b>
<i>Bead size (diameter)</i>	0.7 – 0.9 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>	13 – 25 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

R300 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.
- R300 is expandable in a single expansion at densities between 13kg/m<sup>3</sup> and 25kg/m<sup>3</sup>. The minimum density achievable may vary depending on the expander type and process conditions.
- Temporary storage time in silos: 5 - 24 hours depending on the density, atmosphere and process conditions.

## Caution

- While using R300 avoid any sparks, flames and/or static electricity. Grounding of all equipment and machines is required.
- Ensure ventilation during the storage and process phases.
- R300 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

R300 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](http://www.fmplastics.nl)  
[info@fmplastics.nl](mailto:info@fmplastics.nl)