



# Ravacell Pro FP.1



# EPS

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## Technical Data Sheet

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### Product Description:

Ravacell® Pro FP.1 is an “Expandable Polystyrene” material in the shape of almost spherical beads, containing a flame retardant additive (HBCD Free), special black colored absorber and pentane as a blowing agent.

### Typical properties:

Bead Size Range (mm): 0,90 – 1,60

Sieve Analysis: 0,60 mm – 1,60 mm, min. 95 %

Bulk Density: ≈ 615 kg/m<sup>3</sup>

### Application:

Ravacell® Pro FP.1 is an EPS grade with flame retardant, which can be produced in density ranges between 12 kg/m<sup>3</sup> (double pre-expansion) – 25 kg/m<sup>3</sup>, suitable for high quality block molding and shape molding with a section thickness of 10 mm and over, ensuring rapid molding with its short cycle time.

Ravacell® Pro FP.1 in general, due to legal and safety evaluations, is used for production of low and medium density blocks, mostly end use for external insulation systems.

### Packaging:

All Ravacell® products are packed in standard big-bag packages of 1125 kg or octagonal cardboard boxes (octabins-non stackable) of 1.125 kg. The content is protected by an inner sealed plastic liner placed between the product and the container.

### Storage:

Ravacell® Pro FP.1 should be stored in well-ventilated storage areas with temperatures preferably not exceeding 25°C. It should be protected against unsuitable weather conditions and direct sun light.

Partially used containers should be closed as tight as original conditions, paying attention to avoid any space between the raw material and lining, and should be consumed in a short time. In order to maintain the expansion potential, it is recommended to start the transformation within one month after delivery, if the package is not opened.

### Processing:

Beads expansion to block or mold shaped products is managed with steam (water vapor).

Ravacell® Pro FP.1 can be expanded at densities between 15 kg/m<sup>3</sup> – 25 kg/m<sup>3</sup> with single expansion. For special applications,

it's possible to achieve below density 15 kg/m<sup>3</sup> with double expansion. The minimum density achievable may vary depending on the expander type and process conditions.

The recommended intermediate aging time in silos is 3-15 hours depending on the density, the atmospheric and process conditions.

For any further request please contact our technical support department.

### Safety and handling:

Please refer to the SDS prior to usage.

### General information:

Ravacell® Pro FP.1, should be kept away from sparks and flames during processing and storage. Adequate ventilation on floor level is also required during these phases. The grounding of the entire equipment and machinery is essential, in order to prevent static electricity on the conveying lines and during processing.

Safety precautions / measures are included in the “Safety Data Sheet” (SDS).

Regarding fire reaction, EPS products made of Ravacell® Pro FP.1, (not mixed with other materials) and within a density range from 12 kg/m<sup>3</sup> (double pre-expansion) – 25 kg/m<sup>3</sup> fulfill the requirements of class E according to EN 13501-1. (Certified by GSH Güteschutzgemeinschaft Hartschaum e.V)

Depending on the obtained density and atmospheric conditions, it should be considered that EPS products by Ravacell® Pro FP.1, may contain pentane gas after processing and should be matured for sufficient time in order to ensure pentane's removal. EPS flame retardant ability can be achieved only after pentane's total elimination.

Ravacell® Pro FP.1, is not suitable and not permitted to be used in food contact applications.

Ravacell® Pro FP.1, is produced in Aliaga, Türkiye.

### Typical properties:

grades	beads size (mm)	application denstiy ( kg/m <sup>3</sup> )	application	
			blocks	injection
Ravacell Pro	0,6 - 1,6	12* - 25	+	+

\*multiple expansion

Plant

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