

# **EPS Flame Retardant NON-HBCD**

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Vercell F405

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#### **Properties**

Bead Size - Diameter	0.4 – 0.7 mm
Blowing Agent – Pentane	>5.3 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 1%
CFC Content	Nil
Flammability of converted raw Vercell F405 materials*	Fulfilled DIN4102 B1, EN ISO 11925-2/ EN 13 501 E
Density	$18-30~\mathrm{kg/m^3}$

#### **Application**

- Vercell F405 is an EPS class with NON-HBCD flame retardant agent, in accordance with REACH regulation, which can
  be used in production of EPS foam typically in density ranges between 18 30kg/m3, suitable for thin wall shape moulding
  applications with excellent fusion and surface finish.
- Vercell F405 in general is used in application which is requiring fire classification such as thermal insulation material for construction applications and technical applications.
- Lower densities can be achieved by multiple expansions.

## **Packing Type**

- 1000kg big bag with inside gas barrier liner
- 1250kg big bag with inside gas barrier liner
- 1200kg octabins are in preparation

### Storage

• Vercell F405 should be stored in well—ventilated storage areas with a temperature preferably not exceeding 25°C. It should be protected against unsuitable weather conditions and direct sun light. Partially used containers should be close as tight as original conditions and should be consumed in a short time. In order to maintain the expansion potential, it is recommended to use the material within one month after delivery.

## **Processing Conditions**

- Minimum density is dependent upon expander type and pressure/steam conditions.
- Recommended silo ageing time must be more than 5 hours to ensure high strength performance of the molded product, but less than 24 hours to ensure good fusion.
- Maximum silo ageing time strongly depends on ventilation and storage temperature.
- For special advice kindly contact Technical Service.

#### **Caution**

- Vercell F405 requires to be avoided restrictively from sparks and flames during phases of processing and storage. Grounding
  of entire equipment and machines are required, in order to prevent against static electricity development on the product
  conveying lines and during product processing.
- Flammable pentane-air mixtures may be generated during storage and processing, for this reason adequate ventilation
- must be ensured. Please make sure to read the "Material Safety Data Sheet" (MSDS), which contains entire details of the measurements required to be taken.
- Vercell F405 is not suitable and not permitted to be used in food contact applications.

\*Based on the test report executed by DMT on final boards converted from random samples of grade Vercell F405

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