



EPS Flame Retardant NON-HBCD

Version:03
Date of Issue: November 2024

Vercell F105

Vercell GmbH
+49 40 855 064 21
www.vercell.eu
info@vercell.eu

Properties

Bead Size - Diameter	1.2 – 1.8 mm
Blowing Agent – Pentane	>5.6 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 1%
CFC Content	Nil
Flammability of converted raw Vercell F105 materials*	Fulfilled DIN4102 B1, EN ISO 11925-2/ EN 13 501 E
Density	12 – 20 kg/m ³

Application

- Vercell F105 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 12 - 20kg/m³, suitable for high quality block moulding.
- Vercell F105 in general is used in application which is requiring fire classification such as thermal insulation material for construction 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 F105 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 F105 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 F105 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 F105

This product information is based on our current knowledge, information and experience. No responsibility or liability can be accepted for factors beyond our knowledge and control. Statements in technical data sheets or any other written information handed over to customers are in no way to be understood as guarantees of properties or as an agreement on properties. Guarantees of quality must be expressly designated as such in writing. The possible intended use of the product is in no way part of the agreed quality. It is the responsibility of the user to check whether the product meet the specific requirements of their application.