



F105 EPS Flame Retardant NON-HBCD	Version: 02 Date of Issue: June 2023
Properties	
Bead Size - Diameter	1.2 – 1.8 mm
Blowing Agent – Pentane	5.6 - 7 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 1%
CFC Content	Nil
Flammability	DIN4102 B1, EN ISO 11925-2/ EN 13 501 E
Density	12-20 kg/m³
Application	
- Vercell F105 is an EPS class with NON-HBCD flame retardant agent, which can be used in production of EPS foam typically in density ranges between 12 – 20 kg/m³ which is suitable for high quality block molding. - Vercell F105 in general is used in application which is requiring fire classification such as thermal insulation material for construction applications and for construction contour moldings. - Lower densities can be achieved by multiple expansions.	
Packing Type	
1250kg big bag with inside gas barrier liner	
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 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 Vercell 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 “Safety Data Sheet” (SDS), 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.	



ISO 9001:2015



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F205 EPS Flame Retardant NON-HBCD	Version: 02 Date of Issue: June 2023
Properties	
Bead Size - Diameter	0.9 – 1.3 mm
Blowing Agent – Pentane	5.6 - 7 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 1%
CFC Content	Nil
Flammability	DIN4102 B1, EN ISO 11925-2/ EN 13 501 E
Density	13-20 kg/m³
Application	
- Vercell F205 is an EPS class with NON-HBCD flame retardant agent, in accordance with REACH regulative, which can be used in production of EPS foam typically in density ranges between 13 - 20 kg/m³, which is suitable for high quality block molding and thick wall shape molding. - Vercell F205 in general is used in thermal insulation material for construction applications and for construction contour moldings which is requiring fire classification. - Lower densities can be achieved by multiple expansions.	
Packing Type	
1250kg big bag with inside gas barrier liner	
Storage	
Vercell F205 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 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 Vercell Technical Service.	
Caution	
- Vercell F205 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 “Safety Data Sheet” (SDS), which contains entire details of the measurements required to be taken. - Vercell F205 is not suitable and not permitted to be used in food contact applications	





F305 EPS Flame Retardant NON-HBCD	Version: 02 Date of Issue: June 2023
Properties	
Bead Size - Diameter	0.7 – 1 mm
Blowing Agent – Pentane	5.6 - 7 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 1%
CFC Content	Nil
Flammability	DIN4102 B1, EN ISO 11925-2/ EN 13 501 E
Density	15-23 kg/m³
Application	
- Vercell F305 is an EPS class with NON-HBCD flame retardant agent, in accordance with REACH regulative, which can be used in production of EPS foam typically in density ranges between 15 - 23 kg/m³, which is suitable for high quality block molding and for shape molding with Good fusion and surface finish. - Vercell F305 in general is used for packaging and insulation application which is requiring fire classification. - Lower densities can be achieved by multiple expansions.	
Packing Type	
1250kg big bag with inside gas barrier liner	
Storage	
Vercell F305 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 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 Vercell Technical Service.	
Caution	
- Vercell F305 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 “Safety Data Sheet” (SDS), which contains entire details of the measurements required to be taken. - Vercell F305 is not suitable and not permitted to be used in food contact applications.	





F405 EPS Flame Retardant NON-HBCD	Version: 03 Date of Issue: June 2023
Properties	
Bead Size - Diameter	0.4 – 0.8 mm
Blowing Agent – Pentane	5 – 6 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 1%
CFC Content	Nil
Flammability	DIN4102 B1, EN ISO 11925-2/ EN 13 501 E
Density	Above 20 kg/m3
Application	
- Vercell F405 is an EPS class with NON-HBCD flame retardant agent, in accordance with REACH regulative, which can be used in production of EPS foam typically in density above 20 kg/m3, which is suitable for high quality shape molding with Good fusion and surface finish. - Vercell F405 in general is used for packaging, insulation and decoration application which is requiring fire classification. - Lower densities can be achieved by multiple expansions.	
Packing Type	
1250kg big bag with inside gas barrier liner	
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 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 Vercell 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 “Safety Data Sheet” (SDS), 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.	





R200 EPS Regular	Version: 02 Date of Issue: June 2023
Properties	
Bead Size - Diameter	0.9 – 1.4 mm
Blowing Agent – Pentane	5.6 - 7 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 0.4%
CFC Content	Nil
Density	12 - 20 kg/m³
Application	
- Vercell R200, is an EPS class, in accordance with REACH regulative, which can be used in production of EPS foam typically in density ranges between 12 - 20 kg/m³ suitable for high quality block molding and shape molding. - Vercell R200 is used for food contact and other packaging variety, insulation applications are not requiring fire classification, for industrial application, and shape molding applications with impact absorber. - Lower densities can be achieved by multiple expansions.	
Packing Type	
1250kg big bag with inside gas barrier liner	
Storage	
Vercell R200 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 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 Vercell Technical Service.	
Caution	
- Vercell R200 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 “Safety Data Sheet” (SDS), which contains entire details of the measurements required to be taken. - Vercell R200 is suitable and permitted to be used in food contact applications.	



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R300 EPS Regular	Version: 02 Date of Issue: June 2023
Properties	
Bead Size - Diameter	0.7– 1 mm
Blowing Agent – Pentane	5.6 - 7 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 0.4%
CFC Content	Nil
Density	13-25 kg/m³
Application	
- Vercell R300, is an EPS class, in accordance with REACH regulative, which can be used in production of EPS foam typically in density ranges between 13 - 25 kg/m³ suitable for high quality block molding and shape molding. - Vercell R300 is used for cases and packaging product suitable for food contact, insulation application which is not requiring fire classification. - Lower densities can be achieved by multiple expansions.	
Packing Type	
1250kg big bag with inside gas barrier liner	
Storage	
Vercell R300 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 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 Vercell Technical Service.	
Caution	
- Vercell R300 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 “Safety Data Sheet” (SDS), which contains entire details of the measurements required to be taken. - Vercell R300 is suitable and permitted to be used in food contact applications.	



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R310 EPS Regular	Version: 02 Date of Issue: June 2023
Properties	
Bead Size - Diameter	0.7 – 1 mm
Blowing Agent – Pentane	5.6 - 7 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 0.4%
CFC Content	Nil
Density	13 - 25 kg/m³
Application	
- Vercell R310, is an EPS class in accordance with REACH regulative, ensuring rapid molding with its short cycle time, which can be used in production of EPS foam typically in density ranges between 13 - 25kg/m3 suitable for high quality block molding and shape molding. - Vercell R310 is used for cases and packaging product suitable for food contact, insulation application which is not requiring fire classification. - Lower densities can be achieved by multiple expansions.	
Packing Type	
1250kg big bag with inside gas barrier liner	
Storage	
Vercell R310 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 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 Vercell Technical Service.	
Caution	
- Vercell R310 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 “Safety Data Sheet” (SDS), which contains entire details of the measurements required to be taken. - Vercell R310 is suitable and permitted to be used in food contact applications.	



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R400 EPS Regular	Version: 03 Date of Issue: June 2023
Properties	
Bead Size - Diameter	0.4 – 0.8 mm
Blowing Agent – Pentane	5.2 – 6.5 %
Residual Styrene Monomer	Less than 1000ppm
Moisture Content	Less than 0.4%
CFC Content	Nil
Density	Above 20 kg/m3
Application	
- Vercell R400, is an EPS class in accordance with REACH regulative, which can be used in production of EPS foam typically in densities above 20 kg/m3 suitable for high quality Block molding and shape molding. - Vercell R400 is used for cases and packaging product for food contact, insulation application which is not requiring fire classification. - Lower densities can be achieved by multiple expansions.	
Packing Type	
1250kg big bag with inside gas barrier liner	
Storage	
Vercell R400 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 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 Vercell Technical Service.	
Caution	
- Vercell R400 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 “Safety Data Sheet” (SDS), which contains entire details of the measurements required to be taken. - Vercell R400 is suitable and permitted to be used in food contact applications.	



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