

BIODEGRADABILITY

Solanyl[®] C1104M (SP10247)

Document type - Biodegradability status

Solanyl[®] grades are biodegradable granulate based on renewable resources.

STATUS SOLANYL[®] C1104M & C1102M GRADES

We confirm that Solanyl[®] grades C1104M & C1102M comply with a number of standards and regulations describing biodegradability around the globe and is as such a priori suitable for various biodegradable applications. As supplied from our factory, the product and as such the components used in the mentioned grades comply with various requirements related to biodegradability.

The most relevant criteria for biodegradability are described according to the European norm EN 13432 (2000) "Requirements for packaging recoverable through composting and biodegradation - Test scheme and evaluation criteria for the final acceptance of packaging", the American standard ASTM D 6400-04 "Standard Specification for Compostable Plastics" and the international standard ISO 17088 (2008) "Specifications for compostable plastics".

Based on results from various compostability tests performed on Solanyl grades as laid down by OWS (Organic waste Systems in Ghent) in reports THRO-2 and THRO-3 it can be concluded that various aspects of EN 13432 are covered. More in particular, heavy metals, biodegradation and ecotoxicity are covering the requirements and do not need to be tested.

The grades C1104M and C1102M are based on a mix consisting of biodegradable components used in Solanyl's C1201, C2202, C8201, C1101, C2101 and C8101, which are certified according Vincotte OK Compost.

CERTIFICATES SOLANYL[®] C GRADES

Solanyl[®] C1201, C2201, C8201, C1101, C2101 and C8101 are certified according to EN13432 (industrial composting) Vincotte OK Compost and has as such, presuming appropriate processing, potential to be used in industrial composting facilities. Other Solanyl[®] C grades comply with EN13432 (Aerobic biodegradability, ecotoxicity and environmental safety & heavy metal content). Various new certifications are set in place or pending.

Solanyl[®] C1201 and C2201 are certified by KIWA K77694 according to regulation BRL-K567.



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NOTE

This information is believed to be accurate & refers to the laws, regulations & products at the date of issue. However, Rodenburg Biopolymers makes no express or implied representations or warranties with respect to the information contained herein. It is the responsibility of our customers to determine that their use of products is safe, lawful, & technically suitable for their applications. Because of possible changes in the laws & regulations, we cannot guarantee that the status of the products will remain unchanged.

For general product & processing information, please refer to our specialists. Our technical services department is available to discuss your requirements and advise on selection of products.

MATERIAL SAFETY DATA SHEETS

Material Safety Data Sheets (MSDS) are available for all grades of resin products which Rodenburg Biopolymers produces. MSDS are provided to help customers satisfy their own handling, safety and disposal needs, and those that may be required by locally applicable health and safety regulations, such as OSHA (U.S.A) OR MAK (Germany).

CHEMICAL CONTROL LAW COMPLIANCE

Across the globe regulations exist for local environmental authorities to evaluate materials to assure the protection of human health & the environment from any unreasonable risks associated with chemical substances. Components used in Rodenburg Biopolymers' resins as supplied from the factory gate comply with the EU EINECS-REACH chemical inventory. REACH is a regulation, adopted to improve the protection of human health & the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the chemicals industry.

NON-GMO (Genetically Modified Organisms)

Rodenburg Biopolymers, to the best of our knowledge, only uses components for the production of our Solanyl[®], Optinyl[®] and FlourPlast[®] product range that are not coming from GMO plants.

OTHER PRODUCT INFORMATION

Various Solanyl[®] C grades like C1201, C2201, C8101 and C2101 are certified according Vincotte OK Biobased.