

June 21, 2012

Dear Ms Lee,

Composting is a method of waste disposal that allows organic materials to be recycled into a product that can be used as a valuable soil amendment. Ingeo™ biopolymer is made primarily of polylactic acid, a repeating chain of lactic acid, which undergoes a 2-step degradation process. First, the combination of moisture and heat in the compost environment attack the Ingeo™ biopolymer polymer chains and split them apart, creating lower molecular weight polymers which are brittle and fragment into significantly smaller pieces, and finally, lactic acid. Microorganisms in compost and soil consume the smaller polymer fragments and lactic acid as nutrients. Since lactic acid is widely found in nature, a large number of organisms metabolize lactic acid. The end result of the process is carbon dioxide, water and also humus, a soil nutrient.

NatureWorks LLC has carried out compost testing of three common Ingeo™ based fabrics comprised of staple fiber and continuous filaments in both woven and nonwoven structures in accordance to ASTM D-6400-04/EN13432 guidelines. This testing was done at an independent testing laboratory (OWS). All samples passed the required tests. The three samples tested consisted of a spunbond sample at a thickness of 347um, spunlace at a thickness of 334um and a woven sample at a thickness of 522um. These samples were chosen to represent a broad range of typical fiber applications.

The spunbond sample that NatureWorks LLC tested comprised of 100% Ingeo™ 6202D. Please be advised that Ingeo™ 6202D may or may not be approved when used in other structures. Please see attached certificate as a reference.

We do not have certification for all Ingeo fiber grades due to the number of fiber production and downstream processes which can have a significant impact on final fabric performance. Such variables include but are not limited to specific fiber geometry, additives incorporated into the fiber, surface treatments and lubricants as well as final fabric/article physical construction

Please note under the certification program, adopted by DIN CERTCO, plastic and polymer products need to file an application for certification to DIN CERTCO, for which a license to mark products with the IBAW Logo is sought and granted. A customer of NatureWorks LLC cannot use the IBAW logo on their products without gaining this certification on their end products from DIN CERTCO.

Ingeo™ innovations are made uniquely from NatureWorks® biopolymer



This data is not intended to relieve you from the requirement to test your compostible product. We recommend you examine the regulation and your responsibilities as a manufacturer to ensure your product comply with any limitations. Any addition of additives or colorants to NatureWorks LLC resin, after the resin leaves our factory gate, will have to pass all required testing to meet compostibility standards.

Best Regards,



William A. Suehr
COO
NatureWorks LLC

c.c. File

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DIN CERTCO

Gesellschaft für Konformitätsbewertung mbH



NOTIFICATION OF REGISTRATION

The company

NatureWorks LLC
15305 Minnetonka Blvd.
MINNETONKA MN 55345
USA

hereby receives the confirmation that the product/s

Compostable material

of the type

6202D

conforms to

DIN EN 13432:2000-12
ASTM D 6400:2004

Certification scheme products made of compostable materials (Edition: 2006-08)

Registration No.: 7W0119

This Notification of Registration is valid in connection with above stated Registration No.
for an unlimited period and becomes ineffective only upon termination.

See annex for further information.
DIN CERTCO Gesellschaft für
Konformitätsbewertung mbH
Albinstraße 68, 12103 Berlin



2009-10-20
Dipl.-Ing. Peter Suxdorf
- Managing Director -

P. Suxdorf

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Annex

to the Notification of Registration with Registration No. 7W0119, dated 2009-10-20

Technical data

max. layer thickness: 347 µm

Testing laboratory / Inspection body

Organic Waste Systems n.v.
4, Dok Noord
9000 GENT
BELGIEN

Test report(s)

R-GJ-5 dated 2008-11-21

