



Certificate of Testing – Degradability & Shelf Life

Testing and Certification Entity

Symphony Environmental Product Testing Laboratory, United Kingdom

Product Submission

Bio-Green Products

Products Tested

- Polypropylene straws (1% d₂w™ 93389 additive)
- Control samples of polypropylene straws without d₂w™

Tests Undertaken

1. Accelerated Ultra Violet Ageing (QUV) – ASTM D5208
2. Measurement of Carbonyl Optical Density of the samples during the UV ageing test

Full Test Report

Bio-Green Products (2931) 22032011

Test Results Summary and Conclusion

Based on the results of the tests undertaken (see Full Test Report), together with our knowledge of similar products, the PP Straws with d₂w™ additive as tested are:

1. Totally Recyclable
2. 100% Degradable and Bio-degradable if disposed of in the presence of oxygen
3. Fit for Purpose with a useable shelf life of 12 months from the date of manufacture if stored in their original packaging, and in conditions where the temperature does not exceed 30°C

Signed:

Michael F Stephens
Technical Director

Symphony's d₂w additives have been extensively tested as part of the company's ongoing testing regime to prove their Degradability, Eco-Toxicity and Food Contact safety.

Certificate Number
11/2931

Date of issue
29/03/2011



ISO 9001-2000



Oxo-biodegradable
Plastic Association



Market of
London Stock
Exchange



Society of Plastics
Engineers (US)



Green Apple
Award



ASTM
Standards Worldwide



Society of the
Chemical Industry
(UK)



Millennium
Award



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