

STATEMENT

Biodegradability under controlled composting conditions of NOWASTE ® cup

On April 15, 2014 a controlled composting biodegradation test was initiated on NOWASTE ® Cup on behalf of NOWASTE GmbH. The test was executed according to the international standard ISO 14855-1 *Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions – Method by analysis of evolved carbon dioxide* (2012), but in duplicate instead of triplicate. All criteria for a valid test were fulfilled. The detailed results are reported in study BN-1.

After 151 days of testing NOWASTE ® Cup demonstrated $86.2\% \pm 10.4\%$ absolute biodegradation, or 93.5% relative biodegradation compared to reference item cellulose. According to the European Standard EN 13432 *Requirements for packaging recoverable through composting and biodegradation – Test scheme and evaluation criteria for the final acceptance of packaging* (2000) and the international standard ISO 17088 *Specifications for compostable plastics* (2008) a material can only be called biodegradable when the percentage of biodegradation is at least 90% in total or 90% of the maximum degradation of a suitable reference item after a plateau has been reached for both reference and test item. Testing was only executed in duplicate, but it can be concluded that test item NOWASTE ® Cup has the potential to reach the 90% biodegradability requirement of the standards on compostability.

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