

Data: 20/07/2020

## EXECUTIVE SUMMARY

Industrial compostability testing program on  
**Napkin Black**  
(Thickness: 112.0  $\mu\text{m}$  – Grammage: 18.1  $\text{g}/\text{m}^2$ )

According to  
**EN 13432:2000**

**Customer and address:**  
**ESSITY ITALY**  
**STABILIMENTO DI ALTOPASCIO,**  
**VIA XXV APRILE NR.2,**  
**55011 BADIA POZZEVERI**  
**LUCCA**

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Results reported in this test report are referred exclusively to the sample analyzed by the laboratory.  
This test report cannot be reproduced partially, unless specified by the laboratory in writing.  
Residues of the samples are stored for 36 months since the issue of the Test Report.  
The analysis are carried out in the Lucca plant.

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TEST REPORT n° 21LD05573

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Fully paid-up share capital € 1.000.000,00

An industrial compostability testing program was executed on **Napkin Black** in line with the European norm EN 13432 *Requirements for packaging recoverable through composting and biodegradation – Test scheme and evaluation criteria for the final acceptance of packaging* (2000).

An overview of tests performed is given in Table 1. The detailed test results are given in the various reports.

Table 1. Overview of the test performed

Test	Napkin Black	Test Report
Material Characteristics	X	19LA07751
Biodegradation test	X	19LA07752
Disintegration test	X	19LA27499
Ecotoxicity test	X	19LA27499

### Material Characteristics

The volatile solids concentration, heavy metals and fluorine content of **Napkin Black** are reported in report 19LA07751. The test material fulfils all requirements on volatile solids, heavy metals and fluorine as stipulated by EN 13432:2000.

### Biodegradation test

The quantitative biodegradation of **Napkin Black** in mature compost was evaluated in a test according to ISO 14855-1:2013 (see report 19LA07752). After ninety days, the test material has showed a biodegradation absolute or relative fulfil the 90 % pass level as required by EN 13432:2000.

### Disintegration test

The quantitative disintegration of **Napkin Black** was evaluated in a pilot-scale aerobic composting test according to ISO 16929:2019. After 12 weeks of composting 100 % complete disintegration was obtained for test material. Material **Napkin Black** easily fulfill the 90 % pass level as required by EN 13432:2000.

### Compost quality – Ecotoxicity tests

The addition of **Napkin Black** at start of the composting did not cause a negative effect on compost quality (including chemical parameters and ecotoxicity tests). **Napkin Black** does fulfill the requirements on compost quality as stipulated by EN 13432:2000.

Technical Manager

