



Rev. no: 1
Status: Final

Laboratory Report: 20151119-005

Laboratory
Tissue GOT

Orderer
Essex Flinck Andreas

Person responsible for commission
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Date Final
20151119

WBS no
GE.521009.SE.10.01

Project Name
Support to BU Europe PH

Distribution list:
Essex Flinck Andreas

Disintegration time - folded toipa

Summary

Background and purpose

Mission

Test disintegration time on two folded toilet paper articles (114271-60 and 114273-60).

Conclusion

According to the standard method, the results should be reported to the nearest 5-seconds. 114271-60 has 10 seconds disintegration time and 114273-60 has 5 seconds.

Comments

Test Methods

14-163-02 Disintegration time, toipa

Procedure

Disintegration time (14-163-02)

A test piece of paper (25 cm) is placed in the bottom of a beaker. A defined volume of water is added to the beaker and the test piece will subsequently disintegrate by means of a propeller. The time from the moment when the water has been added until the sample has been fully disintegrated and homologous distributed in the beaker is measured and recorded. If the sample has not initiated disintegration within 2 min, the test is cancelled and the sample is considered not flushable. If the sample has begun to disintegrate but not fully disintegrated after 5 min, the test will also be cancelled and considered not flushable.

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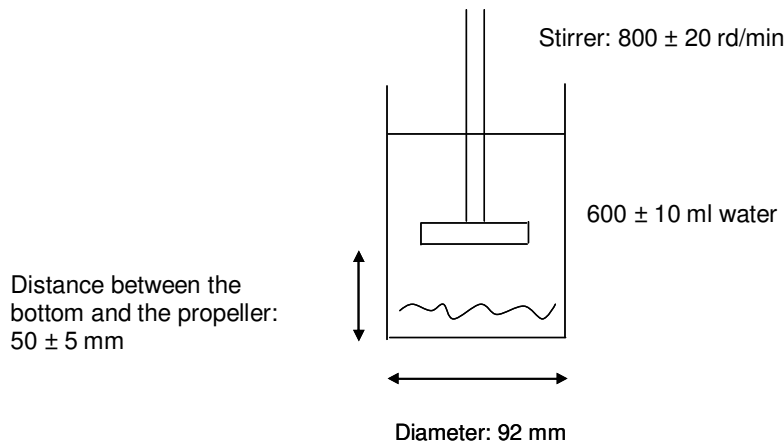


Figure 1. Schematic illustration of the apparatus. A beaker with the test piece placed in the bottom. The propeller is centred in the beaker and positioned in height.

Deviation from the standard method

According to NF Q 34-020 the distilled water is supposed to have a temperature of $23 \pm 1^\circ\text{C}$. The temperature on the water from the taps is not tempered prior to testing. The temperature of the distilled water in the taps is about 20°C and cannot be adjusted. Possible impact to the results is neglected.

According to EN20187, the samples are about to be conditioned prior to test. This procedure is believed to be of insignificant character since the samples are about to be immersed and by very reason that the test is performed in a not climate adapted room. **Exception:** Samples containing wet strength agent, e.g. test runs that have not yet fully developed wet strength may be heat treated for 30 min in 80°C before testing. This exception should be specified by the orderer and must be stated in the report.

According to the standard EN ISO 186, two sheets of paper are chosen in series of perforated rolls and folded once prior to analysis. This procedure has been ignored since this does not provide representative results in the cases where the perforation lengths differ for the same material (same specification but different perforation lengths). Since the method often is used as a comparison between different materials, the test pieces should therefore be of the same length to avoid any misleading results. Hence, the test pieces should be 25 cm long despite what kind of roll or folded papers that are used.



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Test Objects

Sample Code: 20151119-005-01

Sample description	114271-60
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Sample Code: 20151119-005-02

Sample description	114273-60
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Test Results

14-163-02 Disintegration time, toipa

20151119-005-01 114271-60

WS: 01-002

Comment:

Parameter	Unit	Mean	Max	Min	Obs	STD
Disintegration time	s	8	8	7	5	1

14-163-02 Disintegration time, toipa

20151119-005-02 114273-60

WS: 02-002

Comment:

Parameter	Unit	Mean	Max	Min	Obs	STD
Disintegration time	s	6	7	5	5	1

Appendix

Reference

Signature: _____

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