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Test Report

Report No.: 1900307e **Date:** 2019-03-29
Ref.: Dr. Was

Client: Günter Gasser GmbH
Lettenstraße 21
A-6973 Höchst

Test Item(s): Adhesive labels

Task: Determination of overall migration

Order: Written order of 2019-02-11 by Mr. Gasser

Date of sampling: —

Location of sampling: No samples taken by OFI staff
Samples provided by OFI's client

Receipt of samples: 2019-02-07



Non-accredited procedures applied
have been named as such.

1 SCOPE OF WORK

In accordance with the contract, the samples submitted were tested on the basis of the applicable legislation on plastics in contact with food, in order to establish whether they comply with the overall migration limit taking into account the conditions of use.

2 SCOPE OF APPLICATION

The results given in this test report have been obtained under the specific conditions of the individual tests. As a rule they are not the only criteria for assessing the product in question and its suitability for a specific purpose of application.

Test Report has originally been drawn up in German. The German version shall be the authentic one and prevail over the English one for all matters of interpretation and construction. The English version shall only be deemed a translation for information purposes.

3 LEGAL BASIS

- Regulation (EC) No. 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC;
- Commission Regulation (EU) No. 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food, as amended;
- Austrian Federal Act on Food Safety and Consumer Protection (LMSVG), Federal Collection of Statutes BGBl. I No. 13/2006, as amended;
- Authorisation by the Austrian Federal Ministry of Health relating to the permission to carry out tests and to draw up expert opinions in accordance with Art. 73 of the LMSVG (Reference No. BMG-75120/0036-II/B/7/2009 of 24 April 2009 and Reference No. BMGF-75000/0032-IV/7/2006 of 23 June 2006).

4 SAMPLE MATERIAL

Our client submitted the following samples for the purpose of testing:

- 4.1 a sufficient quantity of adhesive labels.



Figure 1: Adhesive label of sample 3.1

5 TESTS

Testing took place from 2019-03-05 to 2019-03-26.

The tests were carried out in the individual technical departments within the scope of competence of the authorised signatories according to the OFI QM manual.

5.1 Determination of overall migration according to EN 1186 resp. Commission Regulation (EU) No. 10/2011, as amended

The migration tests on the labels of sample 4.1 were carried out in accordance with ÖNORM EN 1186-3:2002 ("Test method for overall migration into aqueous test food by total immersion") and ÖNORM EN 1186-14: 2002 ("Test methods for "substitute tests" for the overall migration from plastics responsible for contact with fatty foods using simulant iso octane and 95% ethanol") with food simulant B (3% acetic acid) as well as simulant 95% ethanol and iso octane as replacement food simulant D2 (vegetable oil). For the tests, the labels were glued in glasses and then the glasses were filled with 100 ml of each simulant. The test conditions were selected according to a multiple use and thus each sample was contacted three times repeatedly with new food simulant. For 3% acetic acid and 95% ethanol, the test conditions of 1 hour at 40° C and for iso octane of 1 hour at 20 ° C were used. In each case, a surface of approx. 1.5 dm² came into contact with the simulant.

6 RESULTS

6.1 Determination of overall migration

Table 1: Results of overall migration of sample 4.1 (Mean value of 3 single values)

Sample 4.1	Overall migration [mg / label]	Limit acc. to CR (EU) No. 10/2011 [mg / kg]
1. Migration: 3% acetic acid (Storage 1h/40°C)	2.4	60
2. Migration: 3% acetic acid (Storage 1h/40°C)	< 1	60
3. Migration: 3% acetic acid (Storage 1h/40°C)	< 1	60
1. Migration: 95% ethanol (Storage 1h/40°C)	36	60
2. Migration: 95% ethanol (Storage 1h/40°C)	27	60
3. Migration: 95% ethanol (Storage 1h/40°C))	20	60
1. Migration: iso octane (Storage 1h/20°C)	2.0	60
2. Migration: iso octane (Storage 1h/20°C)	< 1	60
3. Migration: iso octane (Storage 1h/20°C)	< 1	60

This test report no. **1900307e**

comprises 6 sheets with 1 table(s), 1 figure(s), 0 appendix(es).

Testing staff

Director in charge
Packaging & Food Unit



Ing. Peter KROJER



Dr. Michael WASHÜTTL

The test results only relate to the samples tested.

Test Reports may be made available to third parties, either free of charge or against payment, if the full wording of the Test Report is given and if OFI is expressly named as the author.

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