

## COBRO - PACKAGING RESEARCH INSTITUT LABORATORY FOR PACKAGING MATERIALS AND CONSUMER PACKAGING TESTING

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## **TEST REPORT No DOJ-531-476/13**

| Test report date :     | 0.01.2014   |  |  |
|------------------------|---|--|--|
|                        |   |  |  |
|                        |   |  |  |
| Base:                  | Order of 29.11.2013   |  |  |
| Subject of testing :   | Wall panel  |  |  |
|                        | Samples for testing were sampled, marked and delivered to COBRO's Laboratory                    |  |  |
|                        | by the customer.  |  |  |
| Sample condition :     | Wall panel FB 300 was made of PVC   |  |  |
|                        | State of the samples was correct.   |  |  |
| Sample delivery date : | 04.12.2013  |  |  |
| Destination :          | -   |  |  |
| Testing scope :        | Determination of overall migration into 10% ethanol, 3% acetic acid and isooctane               |  |  |
| Test methods :         | Commission Regulation (EU) No 10/2011 of 14 January 2011 (OJ L 12,                              |  |  |
|                        | 15.1.2011, p.1) and <b>PN-EN 1186-1:2005</b> Materials and articles in contact with             |  |  |
|                        | foodstuffs – Plastics - Part 1: Guide to the selection of conditions and test methods           |  |  |
|                        | for overall migration   |  |  |
|                        | PN-EN 1186-3:2005 Materials and articles in contact with foodstuffs - Plastics -                |  |  |
|                        | Part 3: Test methods for overall migration into aqueous food simulants by total                 |  |  |
|                        | immersion  RN EN 4486 44:2005 Metarials and articles in contact with feedatuffs. Blocking       |  |  |
|                        | PN-EN 1186-14:2005 Materials and articles in contact with foodstuffs - Plastics -               |  |  |
|                        | Part 14: Test methods for substitute tests for overall migration from plastics                  |  |  |
|                        | intended to come into contact with fatty foodstuffs using test media isooctane and 95 % ethanol |  |  |
| Date of testing:       | 09-10.01.2014   |  |  |
| vale of lesting.       | 09-10.01.2014   |  |  |

## The overall migration level

| Sample       | Simulant       | Contact's condition |       | Migration level (mg/dm²) |
|--------------|----------------|---------------------|-------|--------------------------|
| Cample       |                | Time                | Temp. | (mg/am )                 |
| Wall panel   | 10% Ethanol    | 2 hours             | 40°C  | < 0,3 *)                 |
| Trail parier | 3% Acetic acid | 2 hours             | 40°C  | $7.8 \pm 0.9^{1)}$       |
|              | 95% Ethanol    | 2 hours             | 40°C  | $0.3 \pm 0.1^{-1}$       |

- \*) Quantification limit
- 1) The expanded uncertainty evaluated for factor k=2 and confidence level of 95%

**The overall migration limit is 10 mg/dm²**, in accordance with the requirements of Commission Regulation (EU) No 10/2011 of 14 January 2011 (OJ L 12, 15.1.2011)

| Report prepared by :  | Autorized by :                    | Confirmed by :  |
|-----------------------|-----------------------------------|---|
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| (M. Sc. Eng)          | Karol Bal                         | Manager of Laboratory of Materials and Consumer Packaging Testing |
| -court                |                                   | W/ Oc   |

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