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Copy of our translation of our test report of 15.07.97, Sch/G1-9347/97-44/45/93

English translation of our test report of 10.07.1997, Sch/5554/97 LE 39/21

Migration studies on GF-UP Laminate LAMILUXplan

Your letter of April 23, 1997, SB

We were asked to conduct migration studies on GF-UP laminate LAMILUXplan.

According to your information the laminate is used for construction of refrigerator trucks, cold-storage houses and snack bars.

In order to carry out the examinations we received test specimen 5 x 5 cm, 2 mm thickness with the material designation LAMILUXplan, quality super, white similar to RAL 9010 which is a glass fibre inforced polyester resin laminate (GF-UP laminate) with glass fibre mats.

## PROCEDURE OF THE EXAMINATIONS

### 1. Migration tests

The test specimen were brought into contact with test solutions suitable to simulate the influence of food by total immersion. The test conditions were applied according to the Council Directive of December 19, 1985 (85/572/EEC) and the Commission Directive of March 15, 1993 (93/8/EEC). Additionally the overall migration into the alternative fat simulant isooctane was determined according to the Practical Guide N.1 of the Commission.

The overall migration was determined as dry residue of the migration solutions. The organic components of the dry residues were determined as the chloroform soluble parts according to the announcement of the Plastics Commission.

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## 2. Sensoric evaluation

The test specimen were brought into contact with the flavor sensitive test solution drinking water at a surface to volume ratio of 1 cm<sup>2</sup> : 2 ml. The sensoric evaluation was carried out as triangle test by a taste panel with particular experience. As blind drinking water was used which had not been in contact with the test specimen. The evaluation was carried out in accordance to DIN 10 955.

## RESULTS OF THE EXAMINATIONS

The results of the examinations are summarized in the attached table. They can be interpreted as follows:

1. The dry residues of the migrates and their chloroform soluble parts are low and below the limit of 10 mg/100 cm<sup>2</sup> mentioned in the Plastics Directive 90/128/EEC.
2. The sensoric evaluation showed no deviation which could give reason for doubts concerning creation of off-odors or off-flavors in food. Also there was no diffusion of colors and/or turbidity detectable.

## SUMMARY

According to the results of the examination the GF-UP laminate is in compliance with § 31 (1) of the German Food and Articles Law (LMBG).

INSTITUT NEHRING GmbH

  
Dr. U.P. Nehring



annex