

HARDICK BV
For the attention of Mr. Nieland
Thermen 5

NL – 7521 PS Enschede
NEDERLAND

REPORT B13/R7451/0002

1/2

Re: Migration tests of foil TFM.

Report date : 03.10.13

Date of receipt : 27.08.13

SAMPLE DESCRIPTION:

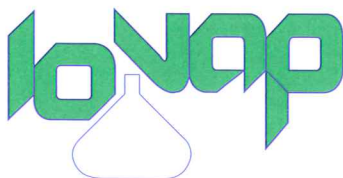
<u>LOVAP ref.</u>	<u>Your ref.</u>
13/LG14052	foil : TFM

The product may, according to the supplier, be exposed to a maximum temperature of 230°C.

RESEARCH:

The tests were carried out according:

- Regulation 10/2011 on plastic materials and articles intended to come into contact with food



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1) Analysis of the physical changes at a temperature of 230°C

The product was heated at 230°C during 2 hours. There was no loss in weight ascertained and no physical changes were identified.

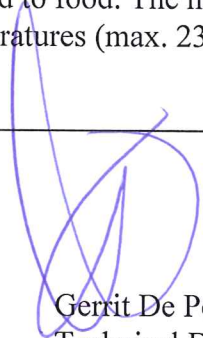
2) Determination of the global migration limit

The global migration of components towards the simulators was determined in the following testing circumstances:

simulant	contact time	contact temperature	global migration (mg/dm ²)
distilled water	2h	100°C	<5
acetic acid 3%	2h	100°C	<5
iso-octaan	4h	reflux	<5
ethanol 95%	4h	reflux	<5

CONCLUSION:

The global migration of the elements of the foil towards the simulators is lower than the maximum limit (10 mg/dm²) for materials meant to be exposed to food. The material is therefore appropriate to be exposed to food by normal and higher temperatures (max. 230°C).


Gerrit De Peuter
Technical Director