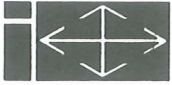


Akkreditiert gemäß
DIN EN ISO / IEC 17025
DIN EN 45011

DACH

DAC-PL-0035-97-20
DAC-ZE-002-08

**ISEGA – Forschungs-
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Aschaffenburg, 18 June 2010

From: Weippert
hg

REPORT

Order No.: 4349/17 Page 1 of 2 pages

Client: iimak International Imaging Materials Europe bvba
Moestoemaatheide 33
2440 Geel / Belgium


Date of order: 21 May 2010

Receipt of sample material: 25 May 2010

Origin of sample material: From the client

Purpose: Partial analysis of a thermal transfer ribbon for its compliance with the demands on food contact materials


(Dr. Derra)


(Weippert)
Officially certified
and authorized food
chemist

The present report refers exclusively to the samples as laid out therein. Information and statistical data on the results can be obtained on request.

Non-accredited determinations have not been validated at the date of the accreditation. Individual determinations were not intended for accreditation owing to their restricted field of application. In these cases, the necessary accuracy for the evaluation is ensured by the internal quality management system.

Geschäftsführer: Dr. Ralph Derra · Handelsregister: Aschaffenburg HRB 3329

Die Veröffentlichung von Ergebnissen unserer Arbeiten und Gutachten sowie die Verwendung für Werbezwecke bedürfen – auch auszugsweise – unserer schriftlichen Genehmigung.
Erfüllungsort und Gerichtsstand Aschaffenburg

Sample Material

For analysis the following sample material was in hand:

Thermal transfer ribbon NET Premium

Carrying out of the Tests

Examination period: 27 May 2010 to 11 June 2010

1. Determination of Volatile Organic Compounds (Headspace-GC/MS-Screening) *

The determination was performed by means of head space chromatography and mass spectrometric detection after a storage of 60 minutes at 80 °C. The air space above the sample material was examined for volatile components and was identified against a spectrum library and additionally according to the retention times.

Besides, it was tested for the listed solvents on the basis of the standard EN 13628-1 for the examination of flexible packaging materials as well as for volatile monomers. If not stated differently, the quantification was performed against the internal standard trichlorotrifluoroethane.

Result:

Evaluation of direct quantified compounds:

Ethanol	not determinable	<	0.2	mg/m ²
Isopropanol	not determinable	<	0.2	mg/m ²
Hexane	not determinable	<	0.2	mg/m ²
Ethyl acetate	not determinable	<	0.2	mg/m ²
1-Ethoxy-2-propanol	not determinable	<	0.2	mg/m ²
Butyl acetate	not determinable	<	0.2	mg/m ²
Hexanal	not determinable	<	0.2	mg/m ²
Cyclohexanone	not determinable	<	0.2	mg/m ²
2-Ethyl-hexanol	not determinable	<	0.2	mg/m ²
Benzene	not determinable	<	0.04	mg/m ²
Toluene			3.9	mg/m ²

The following compounds were not determinable in the corresponding chromatograms:

Residual solvents:

Acetone	<	0.2	mg/m ²
2-Butanone	<	0.2	mg/m ²
1-Butanol	<	0.2	mg/m ²
Isobutanol	<	0.2	mg/m ²
Isopropyl acetate	<	0.2	mg/m ²
Methanol	<	0.2	mg/m ²
1-Methoxy-2-propanol	<	0.2	mg/m ²
Methyl acetate	<	0.2	mg/m ²
Methyl-tert-butylether	<	0.2	mg/m ²
1-Propanol	<	0.2	mg/m ²

Monomers:

Butyl acrylate	<	0.01	mg/dm ²
Ethyl acrylate	<	0.01	mg/dm ²
Hydroxypropyl acrylate	<	0.01	mg/dm ²
Methyl acrylate	<	0.01	mg/dm ²
Butyl methacrylate	<	0.01	mg/dm ²
Isobutyl methacrylate	<	0.01	mg/dm ²
Methyl methacrylate	<	0.01	mg/dm ²
Styrene	<	0.01	mg/dm ²
Vinyl acetate	<	0.01	mg/dm ²

Aromatics:

Ethylbenzene	<	0.04	mg/m ²
Xylene	<	0.04	mg/m ²

The accreditation applies to the methods marked with * in the test report (Register no. DAC-PL-0035-97-20). End of report