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TÜV Rheinland LGA Products GmbH · 51105 Cologne CHUNG HWA PULP CORPORATION No. 112, Jiutang Rd., Jiutang Vil. Dashu Dist., Kaohsiung City 840 Taiwan, R.O.C.

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Report No.	0001085290/10 AZ 407204
Test item:	Paper samples, white
Identification:	Easy Fun Greaseproof Paper (Fluorocabon-Free)
Condition at delivery:	No claim
Date of delivery:	25.03.2021
Place of testing:	Cologne, Nuremberg
Test period:	30.03.2021 to 08.04.2021
Test scope:	Parameters selected by customer
Test specification:	Resolution AP (2002) 1 on Paper and board materials and articles intended to come into contact with foodstuffs" (Council of Europe)
Test result:	According to the kind and extent of tests performed the test item meets the requirements of the test specification.
tested by:	authorized by:
09.04.2021 X	09.04.2021 X llitte Q+

Sachverständige(r)/Expert Signiert von: Mark Hofmann

Sachverständige(r)/Expert Signiert von: Inga Mickley-Aust

The test results exclusively refer to the samples examined. Except as noted otherwise pass/fail assessments do not consider the uncertainty of measurement. This report shall not be reproduced except in full without written approval and does not authorize the use of a TÜV Rheinland Group label. Decision rule: The uncertainty of measurement of the test methods listed in this test report is determined according to ILAC-G8:09/2019 'Guidelines on Decision Rules and Conformity with Requirements', clause 4.2.1 Binary Statement for Simple Acceptance Rule, is not included in the limit value consideration. Exceptions to this rule are test procedures in which a separate decision rule is defined by standard or by the customer. TÜV Rheinland LGA Products GmbH, Tillystr. 2, D-90431 Nuremberg, Tel +49 911 655 5225, Fax +49 911 655 5226, Mail analytik@de.tuv.com, Web www.tuv.com Board of Management: Dipl.-Ing. Jörg Mähler, Dipl.-Kfm. Dr. Jörg Schlösser, district court Nürnberg HRB 26013, VAT-No: DE811835490 Business Stream Products LFGB - Consumer Products

Report No.: Date: 0001085290/10 AZ 407204 09.04.2021



Photo documentation

Picture 1: Easy Fun Greaseproof Paper (Fluorocabon-Free)



0001085290/10 AZ 407204 09.04.2021



List of materials

Article	Article name
1	Easy Fun Greaseproof Paper (Fluorocabon-Free)

Mat.No.	Article	Component	Material	Colour
001	1	Base material	paper	white

Report	No.:
Date:	

0001085290/10 AZ 407204 09.04.2021



Results

Sensory analysis

Sample composition	Mat. 001		
Sample No.	407204-001		
Unit			
Organoleptic test			
Contact medium	K/C		
Test conditions	24 h, 40°C		
Migration preparation	-		
Smell transfer	0		
Transfer of taste	0		

K/C cookie

If the evaluation is between 0 to 2.5 no sensory deviation is indicated and the sample fulfils the requirements of § 31 LFGB respectively article 3 of the regulation (EC) 1935/2004 (61. Mitteilung Bundesgesundheitsbl. - Gesundheitsforsch - Gesundheitsschutz 46 (2003) 363).

Evaluation scheme:

- 0 = no perceptible difference
- 1 = just perceptible difference (still difficult to define)
- 2 = slight difference
- 3 = marked difference
- 4 = strong difference

Formaldehyde, paper

Sample composition	Mat. 001		
Sample No.	407204-008		
Unit	mg/dm ²		
Extraction preparation	10,020g/250ml/ 22,6dm ²		
Extraction temperature	C/K		
Formaldehyde [mg/kg food simulant]	<1,5		
Formaldehyde	<0,1		

C/K Cold water extract

Paper with food contact:

Limit acc. to

-BfR recommendation XXXVI "Paper and board for food contact" (Germany):

-"Resolution AP (2002) 1 on Paper and board materials and articles intended to come into contact with foodstuffs" (Council of Europe):

15 mg/kg food simulant

Sanitary Papers: Limit acc to "Guidelines for Evaluating Sanitary Papers" (Bundesgesundhbl. 39 (1996) 123): 1 mg/dm²



0001085290/10 AZ 407204 09.04.2021

Heavy metals, paper/board

Sample composition	Mat. 001		
Sample No.	407204-003		
Unit	mg/kg		
Group heavy metals, paper			
Extraction temperature	C/K		
Aluminium [mg/l]	0,05		
Lead	<0,005		
Lead [µg/l]	<5		
Lead [mg/dm ²]	<0,001		
Cadmium [µg/I]	<1		
Cadmium [mg/dm²]	<0,001		
Chromium [mg/dm²]	<0,002		
Mercury [mg/dm ²]	<0,001		
Mercury	<0,001		

C/K Cold water extract

Requirements according to the recommendation of the BfR part XXXVI:

No more than 10 µg/l lead and 5 µg/l cadmium must be detectable in the cold water extract of the finished product.

The migration of aluminium into foodstuffs must not exceed 1 mg/kg. If tested in cold water extract, a limit of 1 mg/l applies to aluminium.

Cold water extract of the finished product must contain no more than 0.004 mg chromium(III)/dm², while chromium (VI) must not be detectable.

Requirements according to the recommendation of the BfR part XXXVI/1 reps. XXXVI/2:

No more than 10 µg/l lead and 5 µg/l cadmium must be detectable in the hot water extract of the finished product.

The migration of aluminium into foodstuffs must not exceed 1 mg/kg. If tested in hot water extract, a limit of 1 mg/l applies to aluminium.

Hot water extract of the finished product must contain no more than 0.004 mg chromium(III)/dm², while chromium (VI) must not be detectable.

Requirements acc. to DGCCRF document Fiche MCDA n°4 (V02 - 01/01/2019) "Aptitude au contact alimentaire des matériaux organiques à base de fibres végétales destinés à entrer en contact avec des denrées alimentaires" (France) Lead <= 0,01 mg/kg food simulant Mercury <= 0,003 mg/kg food simulant

Limit acc. to Resolution AP (2002) 1 on Paper and board materials and articles intended to come into contact with foodstuffs (Council of Europe) Cadmium 0,002 mg/dm² paper Lead 0,003 mg/dm² paper Mercury 0,002 mg/dm² paper



Report No.:	0001085290/10 AZ 407204
Date:	09.04.2021

Primary aromatic amines (specific analysis), migration

Sample composition	Mat. 001		
Sample No.	407204-002		
Unit	mg/kg food		
	simulant		
Primary aromatic amines			
Migration solution	H2O		
Conditions of migration	C/K		
	10,020g /		
Migration preparation	250ml /		
2.4. Dimethylaniling	22,6dm ² <0,002		
2,4-Dimethylaniline 4,4 ⁻ Diaminodiphenylmethane (4,4-MDA)	<0,002		
4,4´-MCDA	<0,002		
Aniline	<0,002		
Benzidine	<0,002		
Benzoguanamine	<0,002		
m-Anisidine	<0,002		
m-Toluidine	<0.002	1	
o-Aminoazotoluene	<0,002		
o-Anisidine	<0,002		
o-Phenylenediamine	<0,002		
o-Toluidine	<0,002		
p-Chloraniline	<0,002		
p-Cresidine	<0,002		
p-Phenylenediamine	<0,002		
m-Phenylenediamine	<0,002		
p-Toluidine	<0,002		
1,5-Diaminonaphthalene	<0,002		
2-Naphthylamine	<0,002		
2,4-Diaminoanisole /	<0,002		
4-Methoxy-m-phenylendiamine 2,4-Toluylendiamine			
	<0,002		
2,4,5-Trimethylaniline 2,6-Dimethylaniline	<0,002		
2,6-Toluylendiamine	<0,002		
3,3´-Dichlorobenzidine	<0,002 <0,002		
3,3 -Dichlorobenzidine	<0,002		
3,3 -Dimetholybenzidine	<0,002		
3,3-Dimethyl-4,4-diaminodiphenylmeth.	<0,002		
4-Aminoazobenzene	<0,002		
4-Aminobiphenyl	<0,002		
4-Chloro-o-toluidine	<0,002		
4,4´-Methylen-bis-(2-chloroaniline)	<0,002		
4,4´-Oxydianiline	<0,002		
4,4´-Thiodianiline	<0,002		
5-Nitro-o-toluidine	<0,002		
3-Amino-4-methoxybenzanilide	<0,002		
3-Chloroaniline	<0,002		
2-Chloroaniline	<0,002		
4-Ethoxyaniline	<0,002		
Dimethyl-2-aminoterephthalate	<0,002		
2-Ethoxyaniline	<0,002		
4-Aminobenzamide	<0,002		
5-Chloro-2-methylaniline	<0,002		
3-Amino-4-methylbenzamide	<0,002		
4-Chloro-2,5-dimethoxyaniline	<0,002		
5-Chloro-2-anisidine	<0,002	 	
2-Nitroaniline	<0,005		

Report No.:

Date:



Page 7 of 11

0001085290/10 AZ 407204 09.04.2021

Sample composition	Mat. 001		
Sample No.	407204-002		
Unit	mg/kg food simulant		
2-Methoxy-4-nitroaniline	<0,005		
5-Amino-6-methyl benzimidiazolone	<0,005		
1,3-Diiminoisoindolen	<0,005		
2,5-Dichloraniline	<0,01		
2-Chlor-4-nitroaniline	<0,005		
2,4,5-Trichloraniline	<0,01		
4-Chlor-3-methoxyaniline	<0,01		
2,4-Dinitroaniline	<0,005		
4-Aminotoluene-3-sulfonic acid	<0,005		
2-Amino-1-naphtalenesulfonic acid	<0,005		
2-Aminobiphenyl	<0,002		
4-Nitro-o-toluidine	<0,002		

C/K Cold water extract H2O water

Requirement according to

- BfR recommendation XXXVI "Paper and board for food contact" (Germany)

- DGCCRF document Fiche MCDA n°4 (V02 - 01/01/2019) "Aptitude au contact alimentaire des matériaux organiques à base de fibres végétales destinés à entrer en contact avec des denrées alimentaires" (France)

A transfer of primary aromatic amines must not be detectable with an applied limit of 0,01 mg of the sum of primary aromatic amines per kg food stuff. In addition carcinogenic primary aromatic amines of the category 1A and 1B must not be detectable with an applied detection limit of 0,002 mg/kg of food stuff.

- "Regeling Verpakkingen en Gebruiksartikelen (Warenwet)" (Netherlands)

- "Resolution AP (2002) 1 on Paper and board materials and articles intended to come into contact with foodstuffs" (Council of Europe):

A transfer of primary aromatic amines must not be detectable with an applied limit of 0,01 mg of the sum of primary aromatic amines per kg food stuff.

Primary aromatic amines from REACH Annex XVII entry 43 Annex 8 are highlighted in grey.

If not further specified the 1st migrate is reported.

	TÜVRheinland®
A	
Page	8 of 11

Report	No.:
Date:	

0001085290/10 AZ 407204 09.04.2021

Chlorophenols

Sample composition	Mat. 001		
Sample No.	407204-004		
Unit	mg/kg		
Chlorophenols			
Pentachlorophenol	<0,15		
2,3,4-Trichlorophenol	<0,15		
2,3,5-Trichlorophenol	<0,15		
2,3,6-Trichlorophenol	<0,15		
2,4,5-Trichlorophenol	<0,15		
2,4,6-Trichlorophenol	<0,15		
3,4,5-Trichlorophenol	<0,15		
2,3,4,5-Tetrachlorophenol	<0,15		
2,3,4,6-Tetrachlorophenol	<0,15		
2,3,5,6-Tetrachlorophenol	<0,15		

According to "Resolution AP (2002) 1" and "Policy Statement Concerning Tissue Paper Kitchen Towels and Napkins" by the Council of Europe the finished product must not contain more than 0.15 mg/kg pentachlorphenol.

Evaluation of wooden products in accordance

Requirements acc. to DGCCRF document Fiche MCDA n°4 (V02 - 01/01/2019) "Aptitude au contact alimentaire des matériaux organiques à base de fibres

végétales destinés à entrer en contact avec des denrées alimentaires" (France)

Pentachlorophenol: <= no more than 0,1 mg/kg Paper

Requirements according Warenwetregeling verpakkingen en gebruikartikelen Hoofdstuk II on papers in contact with food (Netherlands):

Chlorophenols (sum) <= 0,1 mg/kg food simulant

*for grammages of the sample up to 1500 g/m² the value expressed in mg/kg food simulant cannot be higher than the value expressed in mg/kg paper

DiisopropyInaphthalene (DIPN)

Sample composition	Mat. 001		
Sample No.	407204-005		
Unit	mg/kg		
Diisopropylnaphthaline	<1,0		

Limit value 30 mg/kg

Λ	TÜV Rheinland®
A	
Page 9	9 of 11

Report No.:	0001085290/10 AZ 407204
Date:	09.04.2021

Fastness of fluorescent whitened paper and board

Sample composition	Mat. 001		
Sample No.	407204-006		
Unit	Stufe/Grade		
Method	Α		
Water	5		
3% - acetic acid	5		
Alkaline salt solution	5		
Oil	5		

A: long duration contact

B: medium time contact

C: short term contact

D: hot contact

Requirement according to the recommendation of the BfR XXXVI "Paper and board for food contact": no transfer of optical brightener to foodstuffs, grade 5 must be reached

Requirements acc. to DGCCRF document Fiche MCDA n°4 (V02 - 01/01/2019) "Aptitude au contact alimentaire des matériaux organiques à base de fibres végétales destinés à entrer en contact avec des denrées alimentaires" (France) Optical brighteners must not migrate to the foodstuff, grade 5 must be reached

Transfer of antimicrobic constituents

Sample composition	Mat. 001		
Sample No.	407204-007		
Unit	mm		
Antimicrobic transfer			
Aspergillus niger, DSM 1957			
Growth	++		
Growth inhibition zone	0		
Bacillus subtilis, ATCC 6633/DSMZ 618			
Growth	++		
Growth inhibition zone	0		

- = no growth

+ = growth

++ = strong growth

Requirement according to

- BfR recommendation XXXVI "Paper and board for food contact" (Germany):

-DGCCRF Dokument "Aptitude au contact alimentaire des matériaux organiques à base de fibres végétales destinés à entrer en contact avec des denrées alimentaires" (France):

- "Resolution AP (2002) 1 on Paper and board materials and articles intended to come into contact with foodstuffs" (Council of Europe):

The finished paper or paperboard must have no preserving effect on the foodstuffs with which they come into contact (Determination of the transfer of antimicrobial constituents with EN 1104. Samples that do not show an inhibition zone >2 mm, do not release antimicrobial constituents.).

0001085290/10 AZ 407204 09.04.2021



Issue date:

01.07.01

Summary of methods

Sensory analysis	Standard: DIN 10955	Issue date: 01.06.04
Mathead dependences		

Method description:

Sensory analysis -Testing of container materials and containers for food products (Commodities), test accorduing to: clause 11.6.3 letter c)

Formaldehyde, paper	Standard:
	DIN EN 1541

Method description:

Paper and board intended to come into contact with foodstuffs - Determination of formaldehyde in an aqueous extract. Cold water extract according to DIN EN 645, hot water extract according to DIN EN 647

	Standard: MS-0022823*	Issue date: 10.03.20
Mathead departmeticus.		

Method description:

Cold water extraction according to DIN EN 645, hot water extract according to DIN EN 647, determination by ICP OES or ICP MS

Notes:

* in-house working instruction

Primary aromatic amines (specific analysis), migration	Standard: MS-0029972*	Issue date: 20.11.17	
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Method description:

In-house method - Determination of selected primary aromatic amines in paper/board after migration under specified conditions, quantification by HPLC-MS/MS

Notes:

4,4'-MCDA = 4,4'-Methylenebis-(3-chloro-2,6-diethylaniline).

* in-house working instruction

Chlorophenols	Standard:	Issue date:

Method description:

In-house method - Determination of chlorophenols in products with food contact after alkaline extraction and derivatisation. Quantification by GC-MS

Diisopropylnaphthalene (DIPN)	Issue date: 01.10.05
Method description:	

Fibre, paper and board - Determination of the diisopropylnaphthalene (DIPN) content by solvent extraction Notes:

The recommendation of the BfR (German Institute for Risk Assessment) XXXVI. "Paper and board for food contact" serves as basis for the evaluation of the test results. Paper and board may contain Diisopropylnaphthalene (DIPN) as a consequence of the use of recycled fibres as raw material. DIPN is used as a solvent in carbonless copy paper. Such paper may be contained in recovered paper. A transfer of DIPN to foodstuffs may take place by direct contact or via the gas phase. The DIPN content in paper and board must be as low as technologically possible in order to minimise its transfer to foodstuffs.

Fastness of fl	uorescent whitened paper and board		Issue date: 01.02.19	
Method description:				
Paper and boa	rd intended to come into contact with foodstuf	fs - Determination of the fastness	of fluorescent whitened paper	

and board

Transfer of antimicrobic constituents	Standard: DIN EN 1104	Issue date: 01.01.19
Method description:		

Paper and board intended to come into contact with foodstuffs - Determination of transfer of antimicrobic constituents

0001085290/10 AZ 407204 09.04.2021



Version directory

Version No.	Report No.	List of changes	Datum
1	0001085290/10 AZ 407204	First edition	09.04.2021

Only the version last shown in the version directory is valid. The previous version(s) shown in the table lose their validity immediately and must be returned or destroyed by the customer.

----End of report----