

Test report. No.: 2021-631 Date: 2021.05.24

Customer: Northmade ApS
 Address: Mellemvej 18
 8800 Viborg
 Att: Bjarne Gedsted Hansen

Product Name: Test af Sabic P QR673K + 2% Tasaf Color
 Sampled by: Customer
 Sample Receiving date: 2021.02.10
 Testing Period: 2021.04.20 – 2021.05.17

Test requested:

Test af Sabic P QR673K + 2% Tasaf Color (UN7034 MB UN Light grey)
 Test iht. Forordning (EU) 10/2011 af 14 januar 2011. Bilag III, tabel 2;. Test ved fødevarsimulator A og B .som repeattest.
 Testbetingelser iht. Forordning (EU) 10/2011 af 14 januar 2011. bilag V, tabel 3, standardbetingelser OM3, 2 timer ved 70 grader C,
 Testen dækker enhver opbevaring ved stuetemperatur eller derunder, inklusive ved emballering under varmpåfyldningsbetingelser og/eller opvarmning til op til 70°C i 2 timer, eller 100°C i 15 minutter, som ikke efterfølges af langtidsofopbevaring ved stuetemperatur eller i kølerum.

Test summary:

Type of analysis	Conclusion	Regulation or protocol
Total migration	Pass	(EC) no 10/2011
Sensory test	Pass	DIN 10955:2004-06
Specific migration of metals	Pass	(EC) no 10/2011
Specific migration Primary Aromatic Amine	Pass	(EC) no 10/2011
Specific migration Butadiene	Pass	(EC) no 10/2011
Specific migration Acetic acid, vinyl ester	Pass	(EC) no 10/2011
Specific migration non disclosed substance XX-a	Pass	(EC) no 10/2011
Specific migration non disclosed substance XX-b	Pass	(EC) no 10/2011
Specific migration non disclosed substance XX-c	Pass	(EC) no 10/2011
Specific migration non disclosed substance XX-d	Pass	(EC) no 10/2011

Test results: See next page.

FCM•testing



Per Holst-Hansen
 MSc/Direktør

Test methods and test conditions:

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DS/EN1186-01:2002, Guide to selection of conditions and test methods for overall migration

DS/EN1186-03:2002, Test methods for overall migration into aqueous food simulants by total immersion.

Repeat test.

Food Simulant	Test time	Test Temperature	Max. Permissible Limit*	Method uncertainty	Method LOQ
10% v/v Ethanol	2 hour ± 5 minutes	70°C ± 2°C	10 mg/dm ²	10%	0,5 mg/dm ²
3% w/v acetic acid	2 hour ± 5 minutes	70°C ± 2°C	10 mg/dm ²	10%	0,5 mg/dm ²

*Compliance acc. regulation (EC) 10/2011

1: Test results total migration repeat:

Test	Rep. A	Rep. B	Rep. C	Average	Migration declining Mig1>Mig2>Mig3	Pass/Fail*
	Third migration	Third migration	Third migration	Third migration		
10% v/v ethanol (mg/ dm ²)	<0,5	<0,5	<0,5	<0,5	Yes	Pass
3 % v/v Ethanol (mg/dm ²)	<0,5	<0,5	<0,5	<0,5	Yes	Pass

* According to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 14 dm²/l

Result measured on 3rd extract.

2: Sensorial Examination Odour and Taste#

Test Method: Sensory test with reference to DIN10955:2004-06

Test procedure:

- 1 Wash the sample with distilled water and dry it at room temperature;
- 2 Total immersion in water at 70°C for 2 hours;
- 3 Cool to room temperature;
- 4 Evaluate the odour and taste
- 5 Test the blank, as in step 1-4

Test results:

Tests	Result	Maximum Permissible Limit *	Pass/Fail**
Sensorial examination odour (Point scale)	0	2,5	Pass
Sensorial examination taste (Point scale)	0	2,5	Pass

*according to DIN 10955.

** Compliance according to DIN 10955

Test performed by ISO 17025 accredited Laboratory TL-532. The test is not accredited

Scale evaluation:

- 0: No perceptible odour and taste
- 1: Odour and taste just perceptible (still difficult to define)
- 2: Moderate odour and taste
- 3: Moderately strong odour and taste
- 4: Strong odour and taste

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3: Specific migration of metals, according to regulation (EC) 10/2011

Test in 3% acetic acid, 2 hours, 70 °C: measured by ICP-AES

Tests	Unit	Results			Maximum Permissible Limit*	Pass/Fail**
		1 th	2 th	3 th		
Aluminium (Al)	mg/kg	<0,1	<0,1	<0,1	1	Pass
Antimony (Sb)	mg/kg	<0,01	<0,01	<0,01	0,04	Pass
Arsenic (As)	mg/kg	<0,01	<0,01	<0,01	0,01	Pass
Barium (Ba)	mg/kg	<0,1	<0,1	<0,1	1	Pass
Cadmium (Cd)	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
Chromium (Cr)	mg/kg	<0,01	<0,01	<0,01	0,01	Pass
Cobalt (Co)	mg/kg	<0,01	<0,01	<0,01	0,05	Pass
Copper (Cu)	mg/kg	<0,1	<0,1	<0,1	5	Pass
Iron (Fe)	mg/kg	<5	<5	<5	48	Pass
Lead (Pb)	mg/kg	<0,01	<0,01	<0,01	0,01	Pass
Lithium (Li)	mg/kg	<0,01	<0,01	<0,01	0,6	Pass
Manganese (Mn)	mg/kg	<0,01	<0,01	<0,01	0,6	Pass
Mercury (Hg)	mg/kg	<0,01	<0,01	<0,01	0,01	Pass
Nickel (Ni)	mg/kg	<0,01	<0,01	<0,01	0,02	Pass
Zinc (Zn)	mg/kg	<0,1	<0,1	<0,1	5	Pass
Europium (Eu)	mg/kg	<0,01	<0,01	<0,01	Sum ≤ 0,05	Pass
Gadolinium (Ga)	mg/kg	<0,01	<0,01	<0,01		
Lanthanum (La)	mg/kg	<0,01	<0,01	<0,01		
Terbium (Tb)	mg/kg	<0,01	<0,01	<0,01		

According to regulation (EC) 10/2011 incl. amendments

**Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l

The test is performed by accredited subcontractor STQ Testing Services Co., Ltd ISO 17025 IAS TL-532, The test is not covered by the accreditation

4: Specific migration Primary Aromatic Amines

Test in 3% acetic acid for 2 hours at 70 °C:

Test method EN 13130-1: 2004, analysis by LC/MS/MS and UV.

Test	Unit	Result			Maximum Permissible Limit*	Pass/Fail**
		1 th	2 th	3 th		
4-Aminobiphenyl	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
Bezidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4-Chloro-o-toluidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
O-Aminoazotoluene	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
5-Nitro-o-toluidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4-Chloroaniline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass

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4-methoxy-m-phenylenediamine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'methylenedianiline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
3,3'Dichlorobenzidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
3,3'Dimethoxybenzidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
3,3'Dimethylbenzidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'methylenedi-o-toluidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
P-Cresidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'-methylenedi-o-toluidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
P-Cresidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'-Methylene-bis(2-Chloro-aniline)	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'oxydianiline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'Thiodianiline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
O-Toluidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4-methyl-m-phenylenediamine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
2,4,5- Trimethylaniline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4_aminiazobenzene	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
O-Anisidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
Other Primary Aromatic Amine	mg/kg	<0,01	<0,01	<0,01	<0,01	Pass

* Grænseværdi iht. Forordning (EU) 10/2011

** Compliance iht. Forordning (EU) 10/2011

Result measured on 3rd extract.

The test is performed by accredited subcontractor STQ Testing Services Co., Ltd ISO 17025 IAS TL-532, The test is not covered by the accreditation

Ratio Surface to Volume: dm²/ml =1/167

5: Specific migration of 1,3-butadiene (Cas.nr. 106-99-0)

Test method: Sample preparation according to EN 13130-1: 2004 with choice of simulant and test conditions. Analysis by HS-GC/MS

Test	Unit	Result			Maximum Permissible Limit*	Pass/Fail**
		1 th	2 th	3 th		
Specific migration of 1,3-butadiene, 10% ethanol at 70°C, 2 hours	mg/kg	<0,01	<0,01	<0,01	0,01	Pass

* According to regulation (EC) 10/2011 incl. amendments

** Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l.

The test is performed by accredited subcontractor STQ Testing Services Co., Ltd ISO 17025 IAS TL-532, The test is not covered by the accreditation

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6: Specific migration of acetic acid, vinyl ester (Cas.nr. 108-05-4)

Test method: Sample preparation according to EN 13130-1: 2004 with choice of simulant and test conditions. Analysis by GC/MS

Test	Enhed	Resultat			Grænseværdi*	Conclusion**
		1 th	2 th	3 th		
Specific migration of acetic acid, vinyl ester, 10% ethanol at 70°C, 2 hours	mg/kg	<3	<3	<3	12	Pass

* According to regulation (EC) 10/2011 incl. amendments

** Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l.

The test is performed by accredited subcontractor STQ Testing Services Co., Ltd ISO 17025 IAS TL-532, The test is not covered by the accreditation

7: Specific migration of non-disclosed substance XX-a# (Cas.nr. xxx)

Test method: Sample preparation according to EN 13130-1: 2004 with choice of simulant and test conditions. Analysis by GC/MS

Test	Unit	Result			Maximum Permissible Limit*	Pass/Fail**
		1 th	2 th	3 th		
Specific migration of XX-a, 10% ethanol at 70°C, 2 hours	mg/kg	-	-	-	-	Pass

* According to regulation (EC) 10/2011 incl. amendments

** Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l.

FCMtesting ApS is aware of the identity of this non-disclosed substance, and confirms compliance with Regulation (EU) 10/2011. The identity of XX can only be disclosed with approval by SABIC Petrochemicals BV

8: Specific migration of non-disclosed substance XX-b# (Cas.nr. xxx)

Test method: Sample preparation according to EN 13130-1: 2004 with choice of simulant and test conditions. Analysis by GC/MS

Test	Unit	Result			Maximum Permissible Limit*	Pass/Fail**
		1 th	2 th	3 th		
Specific migration of XX-b, 10% ethanol at 70°C, 2 hours	mg/kg	-	-	-	-	Pass

* According to regulation (EC) 10/2011 incl. amendments

** Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l.

FCMtesting ApS is aware of the identity of this non-disclosed substance, and confirms compliance with Regulation (EU) 10/2011. The identity of XX can only be disclosed with approval by Tosaf Color Service GmbH & Co. KG

9: Specific migration of non-disclosed substance XX-c# (Cas.nr. xxx)

Test method: Sample preparation according to EN 13130-1: 2004 with choice of simulant and test conditions. Analysis by GC/MS

Test	Unit	Result			Maximum Permissible Limit*	Pass/Fail**
		1 th	2 th	3 th		
Specific migration of XX-c, 10% ethanol at 70°C, 2 hours	mg/kg	-	-	-	-	Pass

* According to regulation (EC) 10/2011 incl. amendments

** Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l.

FCMtesting ApS is aware of the identity of this non-disclosed substance, and confirms compliance with Regulation (EU) 10/2011. The identity of XX can only be disclosed with approval by Tosaf Color Service GmbH & Co. KG

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10: Specific migration of non-disclosed substance XX-d# (Cas.nr. xxx)

Test method: Sample preparation according to EN 13130-1: 2004 with choice of simulant and test conditions. Analysis by GC/MS

Test	Unit	Result			Maximum Permissible Limit*	Pass/Fail**
		1 th	2 th	3 th		
Specific migration of XXd, 3% acetic acid at 70°C, 2 hours	mg/kg	-	-	-	-	Pass

* According to regulation (EC) 10/2011 incl. amendments

** Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l.

FCMtesting ApS is aware of the identity of this non-disclosed substance, and confirms compliance with Regulation (EU) 10/2011. The identity of XX can only be disclosed with approval by Tosaf Color Service GmbH & Co. KG

11: Specific migration of non-disclosed substance XX-d# (Cas.nr. xxx)

Test method: Sample preparation according to EN 13130-1: 2004 with choice of simulant and test conditions. Analysis by GC/MS

Test	Unit	Result			Maximum Permissible Limit*	Pass/Fail**
		1 th	2 th	3 th		
Specific migration of XXe, 3% acetic acid at 70°C, 2 hours	mg/kg	-	-	-	-	Pass

* According to regulation (EC) 10/2011 incl. amendments

** Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l.

FCMtesting ApS is aware of the identity of this non-disclosed substance, and confirms compliance with Regulation (EU) 10/2011. The identity of XX-d can only be disclosed with approval by SABIC Petrochemicals BV

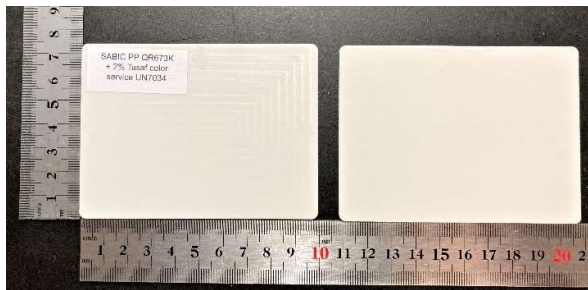


Foto af test emne

*** End of Report***

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Test report.

Report template no. 001

No.: 2022-863

Date: 2022.02.23

Customer: Northmade ApS
Address: Mellemvej 18
8800 Viborg
Att: Bjarne Gedsted Hansen

Product Name: Lysegråboks
Product Description: SABIC PP_56M10 + Advanze MPP-28190-AL Light Grey PP
Batch number:
Sampled by: Customer
Sample Receiving date: 2022.02.27
Testing Period: 2022-01.31 – 2022.02.22

Test requested:

Test conditions according to Regulation (EU) 10/2011 of 14 January 2011. Annex V, Table 3, standard conditions OM3, 2 hours at 70 degrees C,

The test covers any storage at room temperature or below, including for packaging under hot filling conditions and / or heating to 70 ° C for 2 hours, or 100 ° C for 15 minutes, which is not followed by long-term storage at room temperature or in a cold room.

Test summary:

Type of analysis	Conclusion	Regulation or protocol
Sensorial test [#]	Pass	DIN 10555: 2004-06
Total migration	Pass	(EC) no 10/2011
Specifics migration of metals in plastic [#]	Pass	(EC) no 10/2011
Specific migration of Primary Aromatic Amines [#]	Pass	(EC) no 10/2011
Specific migration of Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate [#]	Pass	(EC) no 10/2011

[#] Test performed by subcontractor. The test is not accredited

Test results: See next page.

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MSc/CEO

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Test report.

No.: 2022-863

Date: 2022.02.23

Report template no. 001

1: Sensorial Examination Odour and Taste#

Test Method: Sensory test with reference to DIN10955:2004-06

Test procedure:

- 1 Wash the sample with distilled water and dry it at room temperature;
- 2 Total immersion in water at 70°C for 2 hours;
- 3 Cool to room temperature;
- 4 Evaluate the odour and taste
- 5 Test the blank, as in step 1-4

Test results:

Tests whole item	Result	Maximum Permissible Limit *	Pass/Fail**
Sensorial examination odour (Point scale)	0	2,5	Pass
Sensorial examination taste (Point scale)	0	2,5	Pass

* According to DIN 10955.

** Compliance according to DIN 10955

Test performed by subcontractor. The test is not accredited

Scale evaluation:

- 0: No perceptible odour and taste
- 1: Odour and taste just perceptible (still difficult to define)
- 2: Moderate odour and taste
- 3: Moderately strong odour and taste
- 4: Strong odour and taste

2: Total migration. Test methods and test conditions:

DS/EN1186-01:2002, Guide to selection of conditions and test methods for overall migration

DS/EN1186-03:2002, Test methods for overall migration into aqueous food simulants by total immersion.

DS/EN1186-14:2002, 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

Food Simulant	Test time	Test Temperature	Max. Permissible Limit*	Method uncertainty	Method LOQ
10% v/v Ethanol	2 hours ± 5 minutes	70°C ± 2°C	10 mg/dm ²	10%	0,5 mg/dm ²
3% w/v acetic acid	2 hours ± 5 minutes	70°C ± 2°C	10 mg/dm ²	10%	0,5 mg/dm ²

* According to regulation (EC) 10/2011

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Total migration Test results, repeat:

Test #1	Rep. A Third migration	Rep. B Third migration	Rep. C Third migration	Average Third migration	Migration declining* Mig1>Mig2>Mig3	Pass/Fail*
10% v/v ethanol (mg/ dm ²)	<2	<2	<2	<2	Yes	Pass
3 % v/v acetic acid (mg/dm ²)	<2	<2	<2	<2	Yes	Pass

* According to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 5 dm²/l

Result measured on 3rd extract.

3: Specific migration of metals, according to regulation (EC) 10/2011#

Food Simulant	Test time	Test Temperature	Method	Method uncertainty
3% w/v acetic acid	2 hours ± 5 minutes	70°C ± 2°C	ICP-AES	20%

Tests	Unit	Results #1			Maximum Permissible limit*	Pass/Fail**
		1 st migration	2 nd migration	3 rd migration		
Aluminium (Al)	mg/kg	<0,1	<0,1	<0,1	1	Pass
Antimony (Sb)	mg/kg	<0,01	<0,01	<0,01	0,04	Pass
Arsenic (As)	mg/kg	<0,01	<0,01	<0,01	0,01	Pass
Barium (Ba)	mg/kg	<0,1	<0,1	<0,1	1	Pass
Cadmium (Cd)	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
Chromium (Cr)	mg/kg	<0,01	<0,01	<0,01	0,01	Pass
Cobalt (Co)	mg/kg	<0,01	<0,01	<0,01	0,05	Pass
Copper (Cu)	mg/kg	<0,1	<0,1	<0,1	5	Pass
Iron (Fe)	mg/kg	<5	<5	<5	48	Pass
Lead (Pb)	mg/kg	<0,01	<0,01	<0,01	0,01	Pass
Lithium (Li)	mg/kg	<0,01	<0,01	<0,01	0,6	Pass
Manganese (Mn)	mg/kg	<0,01	<0,01	<0,01	0,6	Pass
Mercury (Hg)	mg/kg	<0,01	<0,01	<0,01	0,01	Pass
Nickel (Ni)	mg/kg	<0,01	<0,01	<0,01	0,02	Pass
Zinc (Zn)	mg/kg	<0,1	<0,1	<0,1	5	Pass
Tungsten (W)	mg/kg	<0,01	<0,01	<0,01	0,05	Pass
Europium (Eu)	mg/kg	<0,01	<0,01	<0,01	Sum ≤ 0,05	Pass
Gadolinium (Ga)	mg/kg	<0,01	<0,01	<0,01		
Lanthanum (La)	mg/kg	<0,01	<0,01	<0,01		
Terbium (Tb)	mg/kg	<0,01	<0,01	<0,01		

According to regulation (EC) 10/2011 incl. amendments

**Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l

Test performed by subcontractor. The test is not accredited

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4: Specific migration Primary Aromatic Amines[#]

Test method: Sample preparation according to EN 13130-1:2004, with selection of simulant and conditions followed by analysis by LC-MS, and by UV

Food Simulant	Test time	Test Temperature	Method	Method uncertainty
3% Acetic acid	2 hours ± 5 minutes	70°C ± 2°C	LC/MS/MS & UV	20%

Test Item(s)	Unit	Results μ 1			Maximum Permissible limit*	Pass/Fail**
		1 st migration	2 nd migration	3 rd migration		
4-Aminobiphenyl	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
Bezidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4-Chloro-o-toluidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
2-Naphthylamine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
O-Aminoazotoluene	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
5-Nitro-o-toluidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4-Chloroaniline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4-methoxy-m-phenylenediamine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'-methylenedianiline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
3,3'-Dichlorobenzidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
3,3'-Dimethoxybenzidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
3,3'-Dimethylbenzidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'-methylenedi-o-toluidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
P-Cresidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'-Methylene-bis(2-Chloro-aniline)	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'-oxydianiline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4,4'-Thiodianiline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
O-Toluidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4-methyl-m-phenylenediamine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
2,4,5- Trimethylaniline	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
4_aminiazobenzene	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
O-Anisidine	mg/kg	<0,001	<0,001	<0,001	0,002	Pass
Other Primary Aromatic Amine	mg/kg	<0,01	<0,01	<0,01	<0,01	Pass

According to regulation (EC) 10/2011 incl. amendments

**Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l

[#] Test performed by subcontractor. The test is not accredited

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The results apply only to the analyzed samples.

FCM•testing ApS

Ballevej 1, 8300 Odder, Danmark, Tlf: +45 41200049,

E-mail: info@fcmtesting.com; Website: www.fcmtesting.com

Test report.

Report template no. 001

No.: 2022-863

Date: 2022.02.23

8: Specific migration of Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (Cas.nr. 2082-79-3) #

Test method: EFSA'cube model Calculation. Migration depth 0,25 mm. Content in masterbatch 0,0045%, Master batch used. 2%

Test	Unit	Resultat α 1	Maximum Permissible Limit *	Pass/Fail**
Specific migration of Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (Cas.nr. 2082-79-3)	mg/kg	<0,012	6	Pass

* According to regulation (EC) 10/2011 incl. amendments

** Compliance according to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 6 dm²/l.

The calculation is not covered by the accreditation

 α 1 PP



Photo test item

 *** End of Report***

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FCM•testing ApS

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 E-mail: info@fcmtesting.com; Website: www.fcmtesting.com

Northmade ApS

DECLARATION OF COMPLIANCE WITH THE REGULATIONS CONCERNING MATERIALS AND PRODUCTS IN CONTACT WITH FOOD PRODUCTS

This Declaration of compliance is issued by:

Company name: Northmade ApS
Address: Mellemvej 18
8800 Viborg
CEO: Bjarne Gedsted Hansen

This declaration of compliance concerns the following materials and articles:

Product description: TheSaladbar
Article number: 57 11337 00010 0
Materials: PP (food contact)

We confirm that the above-mentioned product fulfills the requirements on materials and articles used for food contact as described in:

- Regulation (EC) 1935/2004 of 27. October 2004
- Regulation (EC) 2023/2006 of 22 December 2006
- Danish executive order, BEK nr 681 of 25/05/2020
- Regulation (EC) 10/2011 of 14 January 2011 incl. amendments

The product is tested for:

- Total migration acc. (EC) no 10/2011
- Sensory test DIN 10955:2004-06
- Specific migration of metals acc. (EC) no 10/2011
- Specific migration Primary Aromatic Amine, (EC) no 10/2011
- Specific migration Butadiene, (EC) no 10/2011
- Specific migration Acetic acid, vinyl ester, (EC) no 10/2011
- Specific migration non-disclosed substance XX-a-e

Substances subject to restrictions

Reference to substance identifications in this section comes from Annex 1 of regulation (EU) 10/2011 (FCM substance no.)

This material contains the following monomers or additives that are regulated with a restriction or specification in their use:

1,3-butadiene (Cas.nr. 106-99-0)
acetic acid, vinyl ester (Cas.nr. 108-05-4)
non-disclosed substance XX-a-e (Cas.nr. xxx)

This material contains the following additives that are regulated as dual use additives in Europe: Titanium dioxide (E171), aluminum E173, Silicon dioxide E551

Northmade ApS

We hereby declare that the material or the article is suitable for direct contact with foodstuff included in the following foodstuff groups, and conditions:

Specifications on the use:

All type of vegetables Yes No

Contact condition: Any contact conditions that include heating up to 70 °C for up to 2 hours, or up to 100 °C for up to 15 minutes, which are not followed by long term room or refrigerated temperature storage.

Ratio of food contact surface area to volume: 6 dm²/l

The item does not apply any danger to health or environment according to Framework Regulation 1935/2004/EC. The item is manufactured according to Regulation 2023/2006/EC on good manufacturing practices. The item complies with the Danish executive order, BEK nr 681 of 25/05/2020.

Place: Viborg

Date: 28-05-2021

Signature: *Bjarne Qedsted Hansen*

NORTHMADE

NORTHMADE • Mellemvej 18 • DK-8800 Viborg • Denmark
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Company stamp/seal.....

Test report.

Report template no. 001

No.: 2022-924

Date: 2022.05.30

Customer: Northmade ApS
Address: Mellemvej 18
8800 Viborg
Att: Bjarne Gedsted Hansen

Product Name: Lysegråboks
Product Description: SABIC PP_56M10 + Advanze MPP-28190-AL Light Grey PP
Batch number:
Sampled by: Customer
Sample Receiving date: 2022.05.12
Testing Period: 2022-05.20 – 2022.05.29

Test requested: Additional test to cover contact with fatty foods

Test conditions according to Regulation (EU) 10/2011 of 14 January 2011. Annex V, Table 3, standard conditions OM3, 2 hours at 70 degrees C,

The test covers any storage at room temperature or below, including for packaging under hot filling conditions and / or heating to 70 ° C for 2 hours, or 100 ° C for 15 minutes, which is not followed by long-term storage at room temperature or in a cold room.

Test summary:

Type of analysis

Total migration

Conclusion

Pass

Regulation or protocol

(EC) no 10/2011

[#] Test performed by subcontractor. The test is not accredited

Test results: See next page.

FCM•testing



Per Holst-Hansen
MSc/CEO

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FCM•testing ApS

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Test report.

No.: 2022-924

Date: 2022.05.30

Report template no. 001

1: Total migration. Test methods and test conditions:

DS/EN1186-01:2002, Guide to selection of conditions and test methods for overall migration

DS/EN1186-03:2002, Test methods for overall migration into aqueous food simulants by total immersion.

DS/EN1186-14:2002, 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

Food Simulant	Test time	Test Temperature	Max. Permissible Limit*	Method uncertainty	Method LOQ
95% v/v Ethanol	2 hours ± 5 minutes	60°C ± 2°C	10 mg/dm ²	10%	0,5 mg/dm ²
Isooctane	30 minutes ± 1 minutes	40°C ± 1°C	10 mg/dm ²	10%	0,5 mg/dm ²

* According to regulation (EC) 10/2011

Total migration Test results, repeat:

Test nr1	Rep. A Third migration	Rep. B Third migration	Rep. C Third migration	Average Third migration	Migration declining* Mig1-Mig2-Mig3	Pass/Fail*
95% v/v ethanol (mg/ dm ²)	<1,5	<1,5	<1,5	<1,5	Yes	Pass
Isooctane (mg/dm ²)	1,9	2,6	2,7	2,4	Yes	Pass

* According to regulation (EC) 10/2011 incl. amendments

Ratio Surface to Volume: 7 dm²/l

Result measured on 3rd extract.

nr1 PP



Photo test item

*** End of Report***

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The results apply only to the analyzed samples.

FCM•testing ApS

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E-mail: info@fcmtesting.com; Website: www.fcmtesting.com

Northmade ApS

DECLARATION OF COMPLIANCE WITH THE REGULATIONS CONCERNING MATERIALS AND PRODUCTS IN CONTACT WITH FOOD PRODUCTS

This Declaration of compliance is issued by:

Company name: Northmade ApS
Address: Mellemvej 18
8800 Viborg
CEO: Bjarne Gedsted Hansen

This declaration of compliance concerns the following materials and articles:

Product description: Product made from SABIC PP_56M10 + Advanze MPP-28190-AL Light Grey PP
Article number: xx
Materials: PE (food contact)

We confirm that the above-mentioned product fulfills the requirements on materials and articles used for food contact as described in:

- Regulation (EC) 1935/2004 of 27. October 2004
- Regulation (EC) 2023/2006 of 22 December 2006
- Danish executive order, BEK nr 681 of 25/05/2020
- Regulation (EC) 10/2011 of 14 January 2011 incl. amendments

The product is tested for:

- Total migration acc. (EC) no 10/2011
- Sensory test DIN 10955:2004-06
- Specific migration of metals acc. (EC) no 10/2011
- Specific migration Primary Aromatic Amine, (EC) no 10/2011
- Specific migration of Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate acc. (EC) no 10/2011

Substances subject to restrictions

Reference to substance identifications in this section comes from Annex 1 of regulation (EU) 10/2011 (FCM substance no.) This material contains the following monomers or additives that are regulated with a restriction or specification in their use:

Cas.nr. 2082-79-3 Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate.

This material contains the following additives that are regulated as dual use additives in Europe:
Iron oxide (E 172), Titanium dioxide (TiO₂) (E 171), Aluminium (E 173), Silicon dioxide (E 551), Calcium stearate (E470a)

We hereby declare that the material or the article is suitable for direct contact with foodstuff included in the following foodstuff groups, and conditions:

Northmade ApS

Specifications on the use:

All type of vegetables Yes No

Contact condition: Any contact conditions that include heating up to 70 °C for up to 2 hours, or up to 100 °C for up to 15 minutes, which are not followed by long term room or refrigerated temperature storage. (30 days)

Ratio of food contact surface area to volume: 5 dm²/l

The item does not apply any danger to health or environment according to Framework Regulation 1935/2004/EC. The item is manufactured according to Regulation 2023/2006/EC on good manufacturing practices. The item complies with the Danish executive order, BEK nr 681 of 25/05/2020.

Place: Viborg

Date: 27-02-2022

Signature:



Company stamp/seal

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