

TEST REPORT



TL-961

72211530350 **REVISION 4**

21.01.2022

LAB LOCATION: TURKEY

LAB NO.: (7221)153-0350 REVISION 4

SERVICE TYPE: Regular DATE IN: June 02nd, 2021

RECONFIRMATION DATE: June 08th, 2021

DATE OUT: July 13th, 2021

REVISION DATE: July 14th, 2021

SECOND REVISION DATE: July 28th, 2021 THIRD REVISION DATE: October 15th, 2021 FOURTH REVISION DATE: January 21th, 2022

BNM PLASTIK SAN. VE TİC. A.Ş. **COMPANY NAME**

(Attn: info@bnmplastik.com)

SAMPLE DESCRIPTION Plastic Storage Box

MODEL/STYLE NO SEE APPENDIX C & D & E

BUYER

MANUFACTURER BNM PLASTIK SAN. VE TİC. A.Ş.

PRODUCTION DATE

COUNTRY OF ORIGIN TURKEY **COUNTRY OF DESTINATION SPAIN** OVERALL CONCLUSION **PASS**

SUMMARY OF TEST RESULTS			
TEST REQUIRED	Sample A		
Overall Migration with 3% Acidic Acid for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245*	Р		
Overall Migration with 10% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245*	Р		
Overall Migration with 95% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245*	Р		
* IAS Accredited Tests			

C/N GG/EY

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email:info.turkey@bvcps.com.tr website: www.bureauveritas.com/cps This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at www.bureauveritas.com/cps and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or a continuous properties.

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SUMMARY OF TEST RESULTS			
TEST REQUIRED	Sample A		
Overall Migration with Isooctane for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245*	P		
Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) 2020/1245*	P		
Specific Migration of Bisphenol A for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245	P		
Phthalates*	P		
Polynuclear Aromatic Hydrocarbons (PAHs)*	P		
Dishwasher Exposure	P		
Microwave Exposure	P		
* IAS Accredited Tests			

RE	REMARKS			
1		P: Pass, F: Fail, DATA: No Evaluation		
2	:	The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline.		
3	:	The test result, the uncertainties (if applicable) with confidence probability are given on the following pages which are part of this report.		
4	:	Test reports without authorised signatures are invalid.		
5		The test results included in the report belongs to only tested sample(s).		

REMARK 6: 72211530350 REVISION 3 test report dated October 15th, 2021 is not valid, it is replaced by this report 72211530350 REVISION 4.

REMARK 7: As per client's request, "Overall Migration with Isooctane for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245* (for item I003 & I005) and Dishwasher Exposure (for Black Printed Storage Box)" test results and "exhibit#1" photo have been removed from the test report. The test results and overall conclusion have been changed as "PASS" from "FAIL".

REMARK 8: As per client's request, "Appendix C" information has been added to the test report.

REMARK 9: As per client's request, "Appendix D" information has been added to the test report.

REMARK 10: As per client's request, "Appendix E" information has been added to the test report.

Bureau Veritas Consumer Products Services Turkey BV CPS Test Lab. Ltd. Sti.

Eylem Yaldizli Murat

Senior Client Team Lead -Hardline

Kerem Can Operations Manager





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Pictures of the Submitted Samples
Sample A



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Component List / List of Materials for Chemical Tests				
Sample	Item No	Component	Material	Colour
A	I001	Bowl	=	Green
A	I002	Body	=	Transparent
A	I003	Lid	=	Green
A	I004	Body	-	Transparent Black
A	I005	Lid	-	Dark Grey





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Overell Mign	otion	with 3% Acetic Acid for Plastic Materials in Contact with Foodstuffs per	
Commission Regulation (EU) No. 2020/1245*			
		With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;	
		EN 1186-9 aqueous food simulants by article filling method	
Test Cond	itions:	2 hours at 70°C (3 th Migration)	
Simulant	Used:	3% Acetic Acid (W/V) Aqueous Solution	
		Result(s) (mg/dm ²)	
		I001	
Trial 1	:	<2.5	
Trial 2	:	<2.5	
Trial 3	:	<2.5	
Average	:	<2.5	
Conclusion	:	Pass	
Note(s):	n.d. = 1	not detected	
	$^{\circ}C = d$	egree Celsius	
	mg/kg	= milligram per kilogram of foodstuff in contact with	
	mg/dm	n ² = milligram per square decimeter of foodstuff in contact with	
R	Reporti	ing Limit : 2,5 mg/dm ²	
Pe	rmissil	ble Limit: 10 mg/dm ²	
Remark(s):		missible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 h amendments.	
		alytical tolerance of aqueous simulants is 2 mg/dm ² or 12 mg/kg.	
		st condition & simulant were specified by client,/ according to Commission Regulation J) No 10/2011 of 14 January 2011 with amendments.	
	4. The	e volume of simulant used is 0.8 L.	
		e ratio of surface area to volume ratio is 3.3 dm ² per 1 kg of foodstuff in contact with.	
	acc	al food contact surface area of whole article is applied in the calculation of the result ording to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.	
		y food contact surface area of cap, gaskets, stopper or similar sealing article is applied in calculation of the result.	





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Overell Micro	otion	with 100/ Ethanal for Plactic Metarials in Contact with Ecodetyffs nor	
Overall Migration with 10% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245*			
		With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;	
		EN 1186-9 aqueous food simulants by article filling method	
Test Cond	litions:	2 hours at 70°C (3 th Migration)	
Simulant	Used:	10% Ethanol (V/V) Aqueous Solution	
		Result(s) (mg/dm ²)	
		I001	
Trial 1	:	<2.5	
Trial 2	:	<2.5	
Trial 3	:	<2.5	
Average	:	<2.5	
Conclusion	:	Pass	
Note(s):	n.d. =	not detected	
	$^{\circ}C = d$	legree Celsius	
	mg/kg	= milligram per kilogram of foodstuff in contact with	
		n^2 = milligram per square decimeter of foodstuff in contact with	
D	Panarti	ing Limit: 2,5 mg/dm ²	
	-	ble Limit: 10 mg/dm ²	
16	1 11115511	ble Limit . 10 mg/um	
Remark(s):		missible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011	
		h amendments.	
		alytical tolerance of aqueous simulants is 2 mg/dm ² or 12 mg/kg. st condition & simulant were specified by client,/ according to Commission Regulation	
		J) No 10/2011 of 14 January 2011 with amendments.	
		e volume of simulant used is 0.8 L.	
		e ratio of surface area to volume ratio is 3.3 dm ² per 1 kg of foodstuff in contact with.	
	6. Tot	al food contact surface area of whole article is applied in the calculation of the result	
		ording to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.	
		ly food contact surface area of cap, gaskets, stopper or similar sealing article is applied in calculation of the result.	
	шс	curculation of the result.	





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Overall Mior:	ation v	with 95% Ethanol for Plastic Materials in Contact with Foodstuffs per
		ation (EU) No. 2020/1245*
		With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods; EN 1186-14 substitute test.
Toot Cond	itiona	2 hours at 60°C (3 th Migration)
Simulant	Usea:	95% Ethanol (V/V) Aqueous Solution
		Result(s) (mg/dm ²)
		I001
Trial 1	:	<2.5
Trial 2	:	<2.5
Trial 3	:	<2.5
Average	:	<2.5
Conclusion	:	Pass
Note(s):	n.d. = r	not detected
-	$^{\circ}C = d\epsilon$	egree Celsius
	mg/kg	= milligram per kilogram of foodstuff in contact with
	mg/dm	² = milligram per square decimeter of foodstuff in contact with
		ner verification by vegetable oil is recommended for compliance confirmation if the materia
	of the Melam	sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS ine.
R	eporti	ng Limit : 2,5 mg/dm ²
Per	rmissib	ole Limit: 10 mg/dm ²
Remark(s):		missible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with endments.
	2. Ana	llytical tolerance of fatty food simulants is 3 mg/dm ² or 20 mg/kg.
		t condition & simulant were specified by client,/ according to Commission Regulation (EU) 10/2011 of 14 January 2011 with amendments.
1	4. The	volume of simulant used is 0.8 L.
		ratio of surface area to volume ratio is 3.3 dm ² per 1 kg of foodstuff in contact with.
		al food contact surface area of whole article is applied in the calculation of the result
	7. Only	ording to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17 y food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the ulation of the result.





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Overall Migra	ation	with Isooctane for Plastic Materials in Contact with Foodstuffs per
Commission 1	Regul	ation (EU) 2020/1245*
Test Method:		With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex
		III and Annex V for selection of condition and EN 1186-1 for selection of test methods;
		EN 1186-14 substitute test.
Test Condition		0.5 hours at 40°C (3 th Migration)
Simulant Used	:	Isooctane
		Result(s) (mg/dm ²)
		I001
Trial 1	:	<2.5
Trial 2	:	<2.5
Trial 3	:	<2.5
Average	:	<2.5
Conclusion	:	Pass
Note(s):	n.d. =	not detected
	$^{\circ}C = d$	legree Celsius
	mg/kg	= milligram per kilogram of foodstuff in contact with
		n ² = milligram per square decimeter of foodstuff in contact with
	materi	ther verification by vegetable oil is recommended for compliance confirmation if the al of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, Melamine.
R	Reporti	ing Limit: 2,5 mg/dm ²
Pe	rmissi	ble Limit : 10 mg/dm ²
Remark(s):	1. Per	missible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011
		h amendments.
		alytical tolerance of fatty food simulants is 3 mg/dm ² or 20 mg/kg
		st condition & simulant were specified by client,/ according to Commission Regulation J) No 10/2011 of 14 January 2011 with amendments.
	4. The	e volume of simulant used is 0.8 L.
	5. The	e ratio of surface area to volume ratio is 3.3 dm ² per 1 kg of foodstuff in contact with.
	acc	tal food contact surface area of whole article is applied in the calculation of the result ording to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
		ly food contact surface area of cap, gaskets, stopper or similar sealing article is applied in calculation of the result.





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	ation with 3% Acetic Acid for Plastic Materials in Contact with Foodstuffs per Regulation (EU) No. 2020/1245*
	ethod: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;
	EN 1186-9 aqueous food simulants by article filling method
Test Cond	itions: 10 days at 40°C (3 th Migration)
Simulant	Used: 3% Acetic Acid (W/V) Aqueous Solution
	Result(s) (mg/dm ²)
	1002
Trial 1	<2.5
Trial 2	: <2.5
Trial 3	: <2.5
Average	: <2.5
Conclusion	: Pass
Note(s):	n.d. = not detected
	°C = degree Celsius
	mg/kg = milligram per kilogram of foodstuff in contact with
	mg/dm ² = milligram per square decimeter of foodstuff in contact with
R	Reporting Limit: 2,5 mg/dm ²
Pe	rmissible Limit: 10 mg/dm ²
Remark(s):	1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
	2. Analytical tolerance of aqueous simulants is 2 mg/dm ² or 12 mg/kg.
	3. Test condition & simulant were specified by client,/ according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
	4. The volume of simulant used is 0.3 L.
	5. The ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.
	6. Total food contact surface area of whole article is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.
	 Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.





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Overell Migne	tion with 100/ Ethanal for Plactic Matarials in Contact with Ecodetyffe nor		
Overall Migration with 10% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245*			
	ethod: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;		
	EN 1186-9 aqueous food simulants by article filling method		
Test Condi	tions: 10 days at 40°C (3 th Migration)		
Simulant	Used: 10% Ethanol (V/V) Aqueous Solution		
	Result(s) (mg/dm ²)		
	1002		
Trial 1	<2.5		
Trial 2	<2.5		
Trial 3	<2.5		
Average	<2.5		
Conclusion	: Pass		
Note(s):	n.d. = not detected		
C	CC = degree Celsius		
1	ng/kg = milligram per kilogram of foodstuff in contact with		
1	mg/dm ² = milligram per square decimeter of foodstuff in contact with		
R	eporting Limit: 2,5 mg/dm ²		
	missible Limit: 10 mg/dm ²		
Kemark(s):	Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.		
2	Analytical tolerance of aqueous simulants is 2 mg/dm ² or 12 mg/kg.		
	Test condition & simulant were specified by client,/ according to Commission Regulation		
	(EU) No 10/2011 of 14 January 2011 with amendments.		
4	The volume of simulant used is 0.3 L.		
	The ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.		
	5. Total food contact surface area of whole article is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.		
	7. Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.		





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Overall Migration with 95% Ethanol for Plastic Materials in Contact with Foodstuffs per			
Commission Regulation (EU) No. 2020/1245*			
	hod: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III		
	and Annex V for selection of condition and EN 1186-1 for selection of test methods;		
	EN 1186-14 substitute test.		
Test Conditi	ions: 10 days at 40°C (3 th Migration)		
Simulant U	sed: 95% Ethanol (V/V) Aqueous Solution		
	Result(s) (mg/dm²)		
	1002		
Trial 1 :	<2.5		
Trial 2 :	<2.5		
Trial 3 :	<2.5		
Average :	<2.5		
Conclusion:	Pass		
Note(s): n.o	d. = not detected		
°C	C = degree Celsius		
m	g/kg = milligram per kilogram of foodstuff in contact with		
m	g/dm ² = milligram per square decimeter of foodstuff in contact with		
of	* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.		
Rep	porting Limit: 2,5 mg/dm ²		
Pern	nissible Limit: 10 mg/dm ²		
	Remark(s): 1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.		
	Analytical tolerance of fatty food simulants is 3 mg/dm ² or 20 mg/kg.		
3. Test condition & simulant were specified by client,/ according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.			
4. The volume of simulant used is 0.3 L.			
	The ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.		
6.	Total food contact surface area of whole article is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17		
7.	Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.		





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Overall Migra	ation	with Isooctane for Plastic Materials in Contact with Foodstuffs per
_		ation (EU) 2020/1245*
Test Method:		With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex
		III and Annex V for selection of condition and EN 1186-1 for selection of test methods;
		EN 1186-14 substitute test.
Test Condition		2 days at 20°C (3 th Migration)
Simulant Used	:	Isooctane
		Result(s) (mg/dm ²)
		I002
Trial 1	:	8.17
Trial 2	:	8.44
Trial 3	:	8.28
Average	:	8.30
Conclusion	:	Pass
Note(s):	n.d. =	not detected
	$^{\circ}C = d$	legree Celsius
	mg/kg	= milligram per kilogram of foodstuff in contact with
	mg/dn	m^2 = milligram per square decimeter of foodstuff in contact with
	materi	ther verification by vegetable oil is recommended for compliance confirmation if the al of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN Melamine.
R	Reporti	ing Limit: 2,5 mg/dm ²
Pe	rmissi	ble Limit : 10 mg/dm ²
Remark(s):	1. Per	missible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011
		h amendments.
		alytical tolerance of fatty food simulants is 3 mg/dm ² or 20 mg/kg
		st condition & simulant were specified by client,/ according to Commission Regulation J) No 10/2011 of 14 January 2011 with amendments.
		e volume of simulant used is 0.3 L.
	5. The	e ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.
	acc	ral food contact surface area of whole article is applied in the calculation of the result ording to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
		ly food contact surface area of cap, gaskets, stopper or similar sealing article is applied in calculation of the result.





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Overall Migra	ation v	with 3% Acetic Acid for Plastic Materials in Contact with Foodstuffs per					
_		ation (EU) No. 2020/1245*					
Test M	ethod:	With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;					
		EN 1186-9 aqueous food simulants by article filling method					
Test Cond	itions:	10 days at 40°C (3 th Migration)					
Simulant	Used:	3% Acetic Acid (W/V) Aqueous Solution					
		Result(s) (mg/dm ²)					
		I003					
Trial 1	:	<2.5					
Trial 2	:	<2.5					
Trial 3	:	<2.5					
Average	:	<2.5					
Conclusion	:	Pass					
Note(s):	n.d. = r	not detected					
	$^{\circ}C = de$	egree Celsius					
:	mg/kg	= milligram per kilogram of foodstuff in contact with					
	mg/dm ² = milligram per square decimeter of foodstuff in contact with						
R	Leporti	ng Limit : 2,5 mg/dm ²					
		ble Limit : 10 mg/dm ²					
Remark(s):		Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.					
		Analytical tolerance of aqueous simulants is 2 mg/dm ² or 12 mg/kg.					
	3. Test condition & simulant were specified by client,/ according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.						
	4. The	The volume of simulant used is 0.3 L.					
	5. The	The ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.					
	acco	6. Total food contact surface area of whole article is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.					
		7. Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.					





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Overall Micro	tion with 100/ Ethanal for Plactic Materials in Contact with Ecodetyffs nor						
0	tion with 10% Ethanol for Plastic Materials in Contact with Foodstuffs per Regulation (EU) No. 2020/1245*						
	ethod: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;						
	EN 1186-9 aqueous food simulants by article filling method						
Test Condi	tions: 10 days at 40°C (3 th Migration)						
Simulant	Used: 10% Ethanol (V/V) Aqueous Solution						
	Result(s) (mg/dm ²)						
	I003						
Trial 1	<2.5						
Trial 2	<2.5						
Trial 3	<2.5						
Average	<2.5						
Conclusion	Pass						
Note(s):	n.d. = not detected						
c	CC = degree Celsius						
r	ng/kg = milligram per kilogram of foodstuff in contact with						
	ng/dm ² = milligram per square decimeter of foodstuff in contact with						
R	eporting Limit: 2,5 mg/dm ²						
	emissible Limit: 10 mg/dm ²						
Remark(s) :	Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.						
2	2. Analytical tolerance of aqueous simulants is 2 mg/dm ² or 12 mg/kg.						
	3. Test condition & simulant were specified by client,/ according to Commission Regulation						
	(EU) No 10/2011 of 14 January 2011 with amendments.						
4	1. The volume of simulant used is 0.3 L.						
	5. The ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.						
	6. Total food contact surface area of whole article is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.						
	7. Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.						





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Overall Migrat	tion v	vith 95% Ethanol for Plastic Materials in Contact with Foodstuffs per						
		tion (EU) No. 2020/1245*						
Test Method:		With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III						
		and Annex V for selection of condition and EN 1186-1 for selection of test methods;						
		EN 1186-14 substitute test.						
		10 days at 40°C (3 th Migration)						
Simulant U	U sed:	95% Ethanol (V/V) Aqueous Solution						
		Result(s) (mg/dm ²)						
		I003						
Trial 1 :		<2.5						
Trial 2 :		<2.5						
Trial 3 :		<2.5						
Average :		<2.5						
Conclusion:		Pass						
Note(s):	.d. = n	ot detected						
		egree Celsius						
n	ng/kg =	= milligram per kilogram of foodstuff in contact with						
n	ng/dm²	² = milligram per square decimeter of foodstuff in contact with						
o		er verification by vegetable oil is recommended for compliance confirmation if the material sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, ine.						
Re	portir	ng Limit: 2,5 mg/dm ²						
Peri	missib	le Limit : 10 mg/dm ²						
	s): 1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.							
		lytical tolerance of fatty food simulants is 3 mg/dm ² or 20 mg/kg.						
3	3. Test condition & simulant were specified by client,/ according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.							
4	• The volume of simulant used is 0.3 L.							
5	• The	ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.						
6	. Total food contact surface area of whole article is applied in the calculation of the result							
		rding to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17						
7		7 food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the ulation of the result.						
	calculation of the result.							





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Overall Migra	ation v	with 3% Acetic Acid for Plastic Materials in Contact with Foodstuffs per					
		ation (EU) No. 2020/1245*					
Test Me	ethod:	With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex					
		III and Annex V for selection of condition and EN 1186-1 for selection of test methods;					
		EN 1186-9 aqueous food simulants by article filling method					
Test Cond	10 days at 40°C (3 th Migration)						
Simulant	Used:	3% Acetic Acid (W/V) Aqueous Solution					
		Result(s) (mg/dm²)					
		I004					
Trial 1	:	<2.5					
Trial 2	:	<2.5					
Trial 3	:	<2.5					
Average	:	<2.5					
Conclusion	:	Pass					
Note(s):	n.d. = r	not detected					
	$^{\circ}C = d\epsilon$	egree Celsius					
1	mg/kg	ng/kg = milligram per kilogram of foodstuff in contact with					
1	mg/dm ² = milligram per square decimeter of foodstuff in contact with						
R	eporti	ng Limit: 2,5 mg/dm ²					
	-	ole Limit : 10 mg/dm ²					
Remark(s):	Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011						
<u> </u>		with amendments.					
		Analytical tolerance of aqueous simulants is 2 mg/dm ² or 12 mg/kg.					
		condition & simulant were specified by client,/ according to Commission Regulation No 10/2011 of 14 January 2011 with amendments.					
		volume of simulant used is 0.3 L.					
<u> </u>		The ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.					
		al food contact surface area of whole article is applied in the calculation of the result					
		according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.					
,		Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.					





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TEST RESULTS

Overell Migne	tion with 100/ Ethanal for Plactic Matarials in Contact with Ecodetyffs nor						
0	ation with 10% Ethanol for Plastic Materials in Contact with Foodstuffs per Regulation (EU) No. 2020/1245*						
	ethod: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;						
	EN 1186-9 aqueous food simulants by article filling method						
Test Condi	itions: 10 days at 40°C (3 th Migration)						
Simulant	Used: 10% Ethanol (V/V) Aqueous Solution						
	Result(s) (mg/dm²)						
	1004						
Trial 1	<2.5						
Trial 2	<2.5						
Trial 3	<2.5						
Average	<2.5						
Conclusion	: Pass						
Note(s):	n.d. = not detected						
-	PC = degree Celsius						
-	ng/kg = milligram per kilogram of foodstuff in contact with						
	ng/dm ² = milligram per square decimeter of foodstuff in contact with						
D	eporting Limit: 2,5 mg/dm ²						
	emissible Limit: 10 mg/dm ²						
rei	missible Limit: 10 mg/dm						
Remark(s):	Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011						
_	with amendments.						
	Analytical tolerance of aqueous simulants is 2 mg/dm ² or 12 mg/kg. Test condition & simulant were specified by client,/ according to Commission Regulation						
ľ	(EU) No 10/2011 of 14 January 2011 with amendments.						
4	4. The volume of simulant used is 0.3 L.						
_	The ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.						
	6. Total food contact surface area of whole article is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.						
7	7. Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.						

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Overall Migra	tion x	vith 95% Ethanol for Plastic Materials in Contact with Foodstuffs per						
		ation (EU) No. 2020/1245*						
		With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III						
		and Annex V for selection of condition and EN 1186-1 for selection of test methods;						
		EN 1186-14 substitute test.						
Test Condi	itions:	10 days at 40°C (3 th Migration)						
Simulant	Used:	95% Ethanol (V/V) Aqueous Solution						
	_	Result(s) (mg/dm²)						
		1004						
Trial 1	:	<2.5						
Trial 2	:	<2.5						
Trial 3	:	<2.5						
Average	:	<2.5						
Conclusion	:	Pass						
Note(s):	n.d. = r	not detected						
c	$C = d\epsilon$	egree Celsius						
1	ng/kg	= milligram per kilogram of foodstuff in contact with						
1	ng/dm	² = milligram per square decimeter of foodstuff in contact with						
l c	* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.							
R	eporti	ng Limit: 2,5 mg/dm ²						
Per	missib	ole Limit: 10 mg/dm ²						
` '	ame	ermissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with mendments.						
		lytical tolerance of fatty food simulants is 3 mg/dm ² or 20 mg/kg.						
[No 1	Test condition & simulant were specified by client,/ according to Commission Regulation (EU) To 10/2011 of 14 January 2011 with amendments.						
4	1. The	e volume of simulant used is 0.3 L.						
<u>L</u>		e ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.						
		ol food contact surface area of whole article is applied in the calculation of the result ording to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17						
7	7. Only	nly food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the deculation of the result.						





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Overall Migra	ation	with Isooctane for Plastic Materials in Contact with Foodstuffs per						
_		ation (EU) 2020/1245*						
Test Method:		With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex						
		III and Annex V for selection of condition and EN 1186-1 for selection of test methods;						
		EN 1186-14 substitute test.						
Test Condition		2 days at 20°C (3 th Migration)						
Simulant Used	:	Isooctane						
		Result(s) (mg/dm ²)						
		I004						
Trial 1	:	5.56						
Trial 2	:	5.78						
Trial 3	:	5.86						
Average	:	5.73						
Conclusion	:	Pass						
Note(s):	n.d. =	not detected						
	$^{\circ}C = d$	egree Celsius						
	mg/kg	= milligram per kilogram of foodstuff in contact with						
	mg/dn	n^2 = milligram per square decimeter of foodstuff in contact with						
	* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.							
R	Reporti	ing Limit: 2,5 mg/dm ²						
Pe	rmissi	ble Limit: 10 mg/dm ²						
Remark(s):	1. Per	missible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011						
		h amendments.						
		alytical tolerance of fatty food simulants is 3 mg/dm ² or 20 mg/kg						
	3. Tes	Test condition & simulant were specified by client,/ according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.						
		The volume of simulant used is 0.3 L.						
	5. The ratio of surface area to volume ratio is 1.8 dm ² per 1 kg of foodstuff in contact with.							
	acc	6. Total food contact surface area of whole article is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17						
		Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.						





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Overall Migra	tion with 3% Acetic Acid for Plastic Materials in Contact with Foodstuffs per						
Commission R	Regulation (EU) No. 2020/1245*						
Test Me	thod: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;						
	EN 1186-9 aqueous food simulants by article filling method						
Test Condi	tions: 10 days at 40°C (3 th Migration)						
Simulant	Used: 3% Acetic Acid (W/V) Aqueous Solution						
	Result(s) (mg/dm ²)						
	I005						
Trial 1	<2.5						
Trial 2	<2.5						
Trial 3	<2.5						
Average	<2.5						
Conclusion	Pass						
Note(s):	a.d. = not detected						
0	C = degree Celsius						
r	mg/kg = milligram per kilogram of foodstuff in contact with						
r	mg/dm ² = milligram per square decimeter of foodstuff in contact with						
Re	eporting Limit: 2,5 mg/dm ²						
	missible Limit: 10 mg/dm ²						
Remark(s): 1	rmissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 th amendments.						
	Analytical tolerance of aqueous simulants is 2 mg/dm ² or 12 mg/kg.						
3	• Test condition & simulant were specified by client,/ according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.						
4	The volume of simulant used is 0.13 L.						
	The ratio of surface area to volume ratio is 1.0 dm ² per 1 kg of foodstuff in contact with.						
	Total food contact surface area of whole article is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.						
7	Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.						





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Overall Micro	tion with 100/ Ethanal for Plastic Matarials in Contact with Ecodetyffs nor						
0	tion with 10% Ethanol for Plastic Materials in Contact with Foodstuffs per Regulation (EU) No. 2020/1245*						
	ethod: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;						
	EN 1186-9 aqueous food simulants by article filling method						
Test Condi	tions: 10 days at 40°C (3 th Migration)						
Simulant	Used: 10% Ethanol (V/V) Aqueous Solution						
	Result(s) (mg/dm²)						
	1005						
Trial 1	<2.5						
Trial 2	<2.5						
Trial 3	<2.5						
Average	<2.5						
Conclusion	: Pass						
Note(s):	n.d. = not detected						
c	CC = degree Celsius						
ı	ng/kg = milligram per kilogram of foodstuff in contact with						
	ng/dm ² = milligram per square decimeter of foodstuff in contact with						
D.	eporting Limit: 2,5 mg/dm ²						
	emissible Limit: 10 mg/dm ²						
Remark(s):	Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011						
-	with amendments. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg.						
	Analytical tolerance of aqueous simulants is 2 ing/diff of 12 ing/kg. 3. Test condition & simulant were specified by client,/ according to Commission Regulation						
	(EU) No 10/2011 of 14 January 2011 with amendments.						
4	The volume of simulant used is 0.13 L.						
5	The ratio of surface area to volume ratio is 1.0 dm ² per 1 kg of foodstuff in contact with.						
	6. Total food contact surface area of whole article is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.						
7	7. Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.						





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TEST RESULTS

	with 95% Ethanol for Plastic Materials in Contact with Foodstuffs per lation (EU) No. 2020/1245*						
	With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1 for selection of test methods;						
	EN 1186-14 substitute test.						
Test Conditions	10 days at 40°C (3 th Migration)						
Simulant Used	: 95% Ethanol (V/V) Aqueous Solution						
_	Result(s) (mg/dm ²)						
	I005						
Trial 1 :	<2.5						
Trial 2:	<2.5						
Trial 3:	<2.5						
Average :	<2.5						
Conclusion:	Pass						
Note(s) : n.d. =	not detected						
$\circ C = c$	degree Celsius						
mg/kg	g = milligram per kilogram of foodstuff in contact with						
	m^2 = milligram per square decimeter of foodstuff in contact with						
* Furt	ther verification by vegetable oil is recommended for compliance confirmation if the material e sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS						
Report	ting Limit: 2,5 mg/dm ²						
Permissi	ible Limit: 10 mg/dm ²						
, ,	Remark(s): 1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.						
	alytical tolerance of fatty food simulants is 3 mg/dm ² or 20 mg/kg.						
	3. Test condition & simulant were specified by client,/ according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.						
4. The	ne volume of simulant used is 0.13 L.						
	e ratio of surface area to volume ratio is 1.0 dm ² per 1 kg of foodstuff in contact with.						
acc	tal food contact surface area of whole article is applied in the calculation of the result cording to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17						
	ly food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the culation of the result.						

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TEST RESULTS

<u>Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245</u>

Test Condition: For Item I001 3% Acetic acid, 70°C, 2 hours, 3 cycle

For Item I002 3% Acetic acid, 40°C, 10 days, 3 cycle

Parameter	Simulant	Unit	R	esult	Maximum Allowable Limit
	Used		I001	I002	
Food contact surface area	-	dm ²	3.3	1.8	-
Volume of simulant used	-	mL	800	300	-
Aluminum (Al)	3% Acetic acid	mg/kg	< 0.1	< 0.1	1
Barium (Ba)	3% Acetic acid	mg/kg	< 0.1	< 0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Copper (Cu)	3% Acetic acid	mg/kg	< 0.5	< 0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	< 0.1	< 0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	< 0.1	< 0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	<3	5
Nickel (Ni)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.02
Antimony (Sb)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.04
Europium (Eu)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Gadolinium (Gd)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Lanthanum (La)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Terbium (Tb)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Sum of Europium (Eu), Gadolinium (Gd), Lanthanum (La), and Terbium (Tb)	3% Acetic acid	mg/kg	<0.01	<0.01	0.05
Arsenic (As)	3% Acetic acid	mg/kg	< 0.01	< 0.01	ND
Cadmium (Cd)	3% Acetic acid	mg/kg	< 0.002	< 0.002	ND (0.002)
Chromium (Cr)	3% Acetic acid	mg/kg	< 0.01	< 0.01	ND
Lead (Pb)	3% Acetic acid	mg/kg	< 0.01	< 0.01	ND
Mercury (Hg)	3% Acetic acid	mg/kg	< 0.01	< 0.01	ND
Tungsten Oxide (WO3)	3% Acetic acid	mg/kg	< 0.04	< 0.04	0.05
Conclusion	-	-	PASS	PASS	=

Note: "<" = less than

mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Remark: 1) The migration test is carried out according to EC Regulation No. (EU) 2020/1245

2) For article intended for repeated use, the migration tests are carried out three times on the same test sample, the first test result will be issued for the requirements mentioned with "Not detected (ND)" and the remaining requirements will be issued with the third test results.

3) Selected test was specified by client.



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TEST RESULTS

<u>Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245</u>

Test Condition: 3% Acetic acid, 40°C, 10 days, 3 cycle

Parameter	Simulant	Unit	Result		Maximum Allowable Limit
	Used		I003	I004	
Food contact surface area	-	dm^2	1.2	2.6	-
Volume of simulant used	-	mL	300	400	-
Aluminum (Al)	3% Acetic acid	mg/kg	< 0.1	< 0.1	1
Barium (Ba)	3% Acetic acid	mg/kg	< 0.1	< 0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Copper (Cu)	3% Acetic acid	mg/kg	< 0.5	< 0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	< 0.1	< 0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	< 0.1	< 0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	<3	5
Nickel (Ni)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.02
Antimony (Sb)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.04
Europium (Eu)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Gadolinium (Gd)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Lanthanum (La)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Terbium (Tb)	3% Acetic acid	mg/kg	< 0.01	< 0.01	0.05
Sum of Europium (Eu), Gadolinium (Gd), Lanthanum (La), and Terbium (Tb)	3% Acetic acid	mg/kg	<0.01	<0.01	0.05
Arsenic (As)	3% Acetic acid	mg/kg	< 0.01	< 0.01	ND
Cadmium (Cd)	3% Acetic acid	mg/kg	< 0.002	< 0.002	ND (0.002)
Chromium (Cr)	3% Acetic acid	mg/kg	< 0.01	< 0.01	ND
Lead (Pb)	3% Acetic acid	mg/kg	< 0.01	< 0.01	ND
Mercury (Hg)	3% Acetic acid	mg/kg	< 0.01	< 0.01	ND
Tungsten Oxide (WO3)	3% Acetic acid	mg/kg	< 0.04	< 0.04	0.05
Conclusion	-	ı	PASS	PASS	-

Note: "<" = less than

mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Remark: 1) The migration test is carried out according to EC Regulation No. (EU) 2020/1245

2) For article intended for repeated use, the migration tests are carried out three times on the same test sample, the first test result will be issued for the requirements mentioned with "Not detected (ND)" and the remaining requirements will be issued with the third test results.

3) Selected test was specified by client.



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TEST RESULTS

<u>Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245</u>

Test Condition: 3% Acetic acid, 40°C, 10 days, 3 cycle

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			I005	
Food contact surface area		dm ²	0.7	-
Volume of simulant used	-	mL	150	-
Aluminum (Al)	3% Acetic acid	mg/kg	<0.1	1
Barium (Ba)	3% Acetic acid	mg/kg	<0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	< 0.01	0.05
Copper (Cu)	3% Acetic acid	mg/kg	<0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	< 0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	< 0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	5
Nickel (Ni)	3% Acetic acid	mg/kg	< 0.01	0.02
Antimony (Sb)	3% Acetic acid	mg/kg	< 0.01	0.04
Europium (Eu)	3% Acetic acid	mg/kg	< 0.01	0.05
Gadolinium (Gd)	3% Acetic acid	mg/kg	< 0.01	0.05
Lanthanum (La)	3% Acetic acid	mg/kg	< 0.01	0.05
Terbium (Tb)	3% Acetic acid	mg/kg	< 0.01	0.05
Sum of Europium (Eu), Gadolinium (Gd), Lanthanum (La), and Terbium (Tb)	3% Acetic acid	mg/kg	<0.01	0.05
Arsenic (As)	3% Acetic acid	mg/kg	< 0.01	ND
Cadmium (Cd)	3% Acetic acid	mg/kg	< 0.002	ND (0.002)
Chromium (Cr)	3% Acetic acid	mg/kg	< 0.01	ND
Lead (Pb)	3% Acetic acid	mg/kg	< 0.01	ND
Mercury (Hg)	3% Acetic acid	mg/kg	< 0.01	ND
Tungsten Oxide (WO3)	3% Acetic acid	mg/kg	< 0.04	0.05
Conclusion	-	-	PASS	

Note: "<" = less than

mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Remark: 1) The migration test is carried out according to EC Regulation No. (EU) 2020/1245

2) For article intended for repeated use, the migration tests are carried out three times on the same test sample, the first test result will be issued for the requirements mentioned with "Not detected (ND)" and the remaining requirements will be issued with the third test results.

3) Selected test was specified by client.

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TEST RESULTS

<u>Specific Migration of Bisphenol A for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245</u>

Test Result of I001

Test Condition: 2 hours at 70°C (3% Acetic acid) (3 cycle)

			Result	Maximum Allowable Limit
Parameter	Simulant Used	Unit	I001	
Food contact surface area	-	dm^2		-
Volume of stimulant used	-	mL/g		0.05
	3% Acetic acid	mg/l	< 0.01	0.03
Conclusion	-	-	PASS	-

Test Result of I002

Test Condition: 10 days at 40°C (3% Acetic acid) (3 cycle)

			Result	Maximum Allowable Limit
Parameter	Simulant Used	Unit	I001	
Food contact surface area	-	dm ²		-
Volume of stimulant used	-	mL/g		0.05
	3% Acetic acid	mg/l	< 0.01	0.03
Conclusion	-	-	PASS	-

Test Result of I003

Test Condition: 10 days at 40°C (3% Acetic acid) (3 cycle)

			Result	Maximum Allowable Limit
Parameter	Simulant Used	Unit	I001	
Food contact surface area	-	dm^2		-
Volume of stimulant used	-	mL/g		0.05
	3% Acetic acid	mg/l	< 0.01	0.03
Conclusion	-	-	PASS	-

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TEST RESULTS

<u>Specific Migration of Bisphenol A for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245</u>

Test Result of I004

Test Condition: 10 days at 40°C (3% Acetic acid) (3 cycle)

			Result	Maximum Allowable Limit
Parameter	Simulant Used	Unit	1002	
Food contact surface area	-	dm^2		-
Volume of stimulant used	-	mL/g		0.05
	3% Acetic acid	mg/l	< 0.01	0.03
Conclusion	-	-	PASS	-

Test Result of I005

Test Condition: 10 days at 40°C (3% Acetic acid) (3 cycle)

			Result	Maximum Allowable Limit
Parameter	Simulant Used	Unit	1002	
Food contact surface area	-	dm^2		-
Volume of stimulant used	-	mL/g		0.05
	3% Acetic acid	mg/l	< 0.01	0.03
Conclusion	-	-	PASS	-

Note: "<" = less than

mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and CEN/TS 13130-13:2005.

Remark: 1) The migration test is carried out according to EC Regulation No. 2020/1245



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TEST RESULTS

PHTHALATES*

Test Method: BV In-house Test Method CPSD-AN-00095-MTHD

Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS)

or Liquid Chromatograph Mass Spectrometer (LC-MS).

Limit: 1000 mg/kg / Each

-	Results		Conclusion	
Tested Item(s)	Detected Analytes	Conc.	Unit	Conclusion
	DBP (Dibutylphthalate)	ND	mg/kg	PASS
	BBP (Butylbenzylphthalate)	ND	mg/kg	PASS
	DEHP (Di(2-ethylhexyl)-phthalate)	ND	mg/kg	PASS
I001+I002	DNOP (Di-n-octylphthalate)	ND	mg/kg	PASS
1001+1002	DIDP (Diisodecylphthalate)	ND	mg/kg	PASS
	DINP (Di-iso-nonylphthalate)	ND	mg/kg	PASS
	DIBP (Diisobutylphthalate)	ND	mg/kg	PASS
	Overall Conclusion	-	-	PASS

-	Results	Conclusion		
Tested Item(s)	Detected Analytes	Conc.	Unit	Conclusion
	DBP (Dibutylphthalate)	ND	mg/kg	PASS
	BBP (Butylbenzylphthalate)	ND	mg/kg	PASS
	DEHP (Di(2-ethylhexyl)-phthalate)	ND	mg/kg	PASS
1003+1004+1005	DNOP (Di-n-octylphthalate)	ND	mg/kg	PASS
1005+1004+1005	DIDP (Diisodecylphthalate)	ND	mg/kg	PASS
	DINP (Di-iso-nonylphthalate)	ND	mg/kg	PASS
	DIBP (Diisobutylphthalate)	ND	mg/kg	PASS
	Overall Conclusion	-	-	PASS

Remark1: Note:

ND -

ND = Not detected % = percent = 10000 mg/kg Detection Limit (mg/kg): Each 50; Sum 150

">" = More than mg/kg = milligram per kilogram Conc. = Concentration

Remark2:

- The list of phthalates is summarized in table of Appendix

Remark3:

Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC

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TEST RESULTS

POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)

Test method: BV CPS In House Method, CPSD-AN-00090-MTHD ZEK - 01.4-08

Parameter	Unit	Results	Requirements
-	-	I001+I002	
Benzo (a) pyrene	mg/kg	<0.2	
Benzo (e) pyrene	mg/kg	<0.2	
Benzo (a) anthracene	mg/kg	<0.2	Each of 8 PAHs
Chrysene	mg/kg	<0.2	< 1 mg/kg
Benzo (b) fluoranthene	mg/kg	<0.2	
Benzo (j) fluoranthene	mg/kg	<0.2	
Benzo (k) fluoranthene	mg/kg	<0.2	
Dibenzo(a,h)anthracene	mg/kg	<0.2	
Sum	mg/kg	<0.2	
Conclusion	-	PASS	-

Parameter	Unit	Results	Requirements
-	-	I003+I004+I005	
Benzo (a) pyrene	mg/kg	<0.2	
Benzo (e) pyrene	mg/kg	<0.2	
Benzo (a) anthracene	mg/kg	<0.2	Each of 8 PAHs
Chrysene	mg/kg	<0.2	< 1 mg/kg
Benzo (b) fluoranthene	mg/kg	<0.2	
Benzo (j) fluoranthene	mg/kg	<0.2	
Benzo (k) fluoranthene	mg/kg	<0.2	
Dibenzo(a,h)anthracene	mg/kg	<0.2	
Sum	mg/kg	<0.2	
Conclusion	-	PASS	-

ND: NOT DETECTED ">" = Greater than Req. = Requirement

NR = Not requested g = gram(s) INCON. = Inconclusive

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (mg/kg): Each: 0.2; Sum: 0.2

Remark: -The list of list of Polynuclear Aromatic Hydrocarbons are summarized in table of Appendix.



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TEST RESULT

DISHWASHER EXPOSURE

Test Method: BV In House Method CPSD-HL-01014-MTHD

Test Condition: 50 cycles

Test Item	Criteria	Result	Conclusion
Green Printed		No any color change breakage,	
	No any color change, breakage cracks,	cracks warping and	MEET
Storage Box	warping and deformation.	deformation has been	MEET
		observed.	

Test Item	Criteria	Result	Conclusion
Green Printed Bowl	No any color change, breakage cracks, warping and deformation.	No any color change breakage, cracks warping and deformation has been observed.	МЕЕТ

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TEST RESULT

Microwave Exposure

Test Method: BV In House Method CPSD-HL-01024

Test Item	Result	Requirement	Conclusion
Black Printed Storage Box	No any no distortion, surface deformation melting, staining have been observed. The gripping area temperature is measured max 36.1°C.	No any no distortion, surface deformation melting, staining shall not observed. The gripping area temperature shall not exceed 60°C.	PASS

Test Item	Result	Requirement	Conclusion
Green Printed Storage Box	No any no distortion, surface deformation melting, staining have been observed. The gripping area temperature is measured max 43.4°C.	No any no distortion, surface deformation melting, staining shall not observed. The gripping area temperature shall not exceed 60°C.	PASS

Test Item	Result	Requirement	Conclusion
Green Bowl	No any no distortion, surface deformation melting, staining have been observed. The gripping area temperature is measured max 29.5°C.	No any no distortion, surface deformation melting, staining shall not observed. The gripping area temperature shall not exceed 60°C.	PASS

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APPENDIX A

List of Polycyclic Aromatic Hydrocarbons:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Naphthalene	91-20-3	13	Dibenzo (a,h) anthracene	53-70-3
2	Acenaphthylene	208-96-8	14	Benzo (g,h,i) perylene	191-24-2
3	Acenaphthene	83-32-9	15	Benzo (b) fluoranthene	205-99-2
4	Fluorene	86-73-7	16	Benzo (k) fluoranthene	207-08-9
5	Phenanthrene	85-01-8	17	Benzo (j) fluoranthene	205-82-3
6	Antracene	120-12-7	18	Benzo (e) pyrene	192-97-2
7	Fluoranthene	206-44-0	19	-	-
8	Pyrene	129-00-0	20	-	-
9	Benzo (a) anthracene	56-55-3	21	-	-
10	Chrysene	218-01-9	22	-	-
11	Benzo (a) pyrene	50-32-8	23	-	-
12	Indeno (1,2,3-cd) pyrene	193-39-5	24	-	-

APPENDIX B

TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
Phthalates	In-house test method	± %17,03
	CPSD-AN-00095-MTHD	

List o	List of Phthalates:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.	
1	Dipentyl phthalate (DPP)	131-18-0	10	Dibutyl phthalate (DBP)	84-74-2	
2	N-pentyl-isopentylphthalate 776297-69-9 (iPnPP)		11	1,2-Benzenedicarboxylic acid, di- C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	
3	Diisopentylphthalate (DiPP)	605-50-5	12	Di-n-hexyl phthalate (DnHP)	84-75-3	
4	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	13	Di-iso-decyl phthalate (DIDP)	26761-40-0 and 68515-49-1	
5	Bis(2-methoxyethyl) phthalate (DMEP)	-methoxyethyl) phthalate 117-82-8 ₁₄ Di-isononyl phthalate (DINP)		28553-12-0 and 68515-48-0		
6	1,2-Benzenedicarboxylic acid, di- C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	15	Di-n-octyl phthalate (DNOP)	117-84-0	
7	Diisobutyl phthalate (DiBP)	84-69-5	16	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear Or Di-hexylphthalate branched and linear	68515-50-4	
8	Benzyl butyl phthalate (BBP)	85-68-7	17	1,2-Benzenedicarboxylic acid, di- C6-10-alkyl esters; with ≥ 0.3% of dihexyl phthalate 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68515-51-5 68648-93-1	
9	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	18	Dicyclohexyl phthalate	84-61-7	



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APPENDIX C

ÜRÜN ADI	ÜRÜN KODU	ÜRÜN BARKODU
POLÍ SAKLAMA KABI 2.3 L	BNM-0278	8682655100278
POLÍ SAKLAMA KABI 1.2 L	BNM-0254	8682655100254
POLÍ SAKLAMA KABI 1.3 L	BNM-0070	8682655100070
POLÍ SAKLAMA KABI 670 ML	BNM-0056	8682655100056
POLÍ SAKLAMA KABI 800ML	BNM-0117	8682655100117
POLÍ SAKLAMA KABI 400ML	BNM-0094	8682655100094
3 LÜ SET POLİ (400 ML-670 ML-1.2 L)	BNM-0315	8682655100315
3 LÜ SET POLİ (800 ML-1.3 L-2.3 L)	BNM-0339	8682655100339
PEGGY SAKLAMA KABI 2.3 L	BNM-0476	8682655100476
PEGGY SAKLAMA KABI 1.3 L	BNM-0452	8682655100452
PEGGY SAKLAMA KABI 1.2 L	BNM-0438	8682655100438
PEGGY SAKLAMA KABI 800 ML	8NM-0414	8682655100414
PEGGY SAKLAMA KABI 670 ML	BNM-0377	8682655100377
PEGGY SAKLAMA KABI 400 ML	BNM-0353	8682655100353
3 LÜ SET PEGGY (400 ML-670 ML-1.2 L)	BNM-0513	8682655100513
3 LÜ SET PEGGY (800 ML-1.3 L-2.3 L)	BNM-0537	8682655100537
ROYAL BOX SAKLAMA KABI 12 L	8NM-0612	8682655100612
ROYAL BOX SAKLAMA KABI 5.7 L	8NM-0216	8682655100216
ROYAL BOX SAKLAMA KABI 2.8 L	8NM-0179	8682655100179
ROYAL BOX SAKLAMA KABI 1.2 L	BNM-0391	8682655100391
FOLY LIFE OLÍVE YAĞLIK	8NM-0193	8682655100193
FOLY LIFE POLI BUZLUK	BNM-0131	8682655100131
1.2 L POLÍ ERZAK KABI	BNM-0759	8682655100759
1.8 L POLÍ ERZAK KABI	BNM-0650	8682655100650
2.7 L POLÍ ERZAK KABI	BNM-0674	8682655100674
550ML POLÍ KARE SAKLAMA KABI	BNM-0698	8682655100698
1.2L POLÍ KARE SAKLAMA KABI	BNM-0711	8682655100711
1.75L POLÍ KARE SAKLAMA KABI	BNM-0735	8682655100735
3 L MONNA SAKLAMA KABI	8NM-0797	8682655100797

BNM PLASTIK SANAYI VE TICARET A.Ş. Mahmutbey Mah. 2435.50kak No:77 Bağcılar / İST. Tel:0212 659 89 93-94 Beylikdüzü Varzı DSXesi 178 142 9570 Ticaret Sicii No! 235588-5





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ÜRÜN ADI	ÜRÜN KODU	ÜRÜN BARKODU
POLI SAKLAMA KABI 2.3 L	8NM-0278	8682655100278
POLÍ SAKLAMA KABI 1.2 L	BNM-0254	8682655100254
POLÍ SAKLAMA KABI 1.3 L	BNM-0070	8682655100070
POLÍ SAKLAMA KABI 670 ML	BNM-0056	8682655100076
POLÍ SAKLAMA KABI 800ML	BNM-0117	8682655100117
POLÍ SAKLAMA KABI 400ML	BNM-0094	8682655100094
3 LÜ SET POLİ (400 ML-670 ML-1.2 L)	BNM-0315	8682655100315
3 LÜ SET POLİ (800 ML-1.3 L-2.3 L)	BNM-0339	8682655100339
PEGGY SAKLAMA KABI 2.3 L	BNM-0476	8682655100476
PEGGY SAKLAMA KABI 1.3 L	BNM-0452	8682655100476
PEGGY SAKLAMA KABI 1.2 L	BNM-0438	8682655100438
PEGGY SAKLAMA KABI 800 ML	BNM-0414	8682655100414
PEGGY SAKLAMA KABI 670 ML	BNM-0377	8682655100377
PEGGY SAKLAMA KABI 400 ML	8NM-0353	8682655100353
3 LÜ SET PEGGY (400 ML-670 ML-1.2 L)	BNM-0513	8682655100513
3 LÜ SET PEGGY (800 ML-1.3 L-2.3 L)	BNM-0537	8682655100537
ROYAL BOX SAKLAMA KABI 12 L	BNM-0612	8682655100612
ROYAL BOX SAKLAMA KABI 5.7 L	BNM-0216	8682655100216
ROYAL BOX SAKLAMA KABI 2.8 L	BNM-0179	8682655100179
ROYAL BOX SAKLAMA KABI 1.2 L	BNM-0391	8682655100391
FOLY LIFE OLIVE YAĞLIK	BNM-0193	8682655100193
FOLY LIFE POLI BUZLUK	BNM-0131	8682655100131
1.2 L POLÍ ERZAK KABI	BNM-0759	8682655100759
1.8 L POLÍ ERZAK KABI	BNM-0650	8682655100650
2.7 L POLÍ ERZAK KABI	BNM-0674	8682655100674
550ML POLÍ KARE SAKLAMA KABI	8NM-0698	8682655100698
1.2L POLÍ KARE SAKLAMA KABI	BNM-0711	8682655100711
1.75L POLÍ KARE SAKLAMA KABI	8NM-0735	8682655100735
3 L MONNA SAKLAMA KABI	BNM-0797	8682655100797

BNM PLASTIK SANAYI VE TICARET A.S. Mahmutbey Mah., 2436. Sokak No:77 Bağcılar / IST. Tel:0212 659 89 93-94 Beylikdürü VergilDavesi 178 142 9570 Ticaret Sich No: 235588-5



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APPENDIX D

SIRA		CODE	BARKOD NUMARASI	ÜRÜN ADI
81	BNM	0810	868265510081	LONG SAKLAMA KABI
97	BNM	0971	868265510097	MİKSER KABI
99	BNM	0995	868265510099	ÇÖP KOVASI
101	BNM	1015	868265510101	3.2 LT UZUN DİKDÖRTGEN SAKLAMA KABI
103	BNM	1039	868265510103	2 LT UZUN DİKDÖRTGEN SAKLAMA KABI
105	BNM	1053	868265510105	MONNA SÜZGEC

APPENDIX E

со	ODE BARKOD NUMARASI		ÜRÜN ADI
BNM	0957	8682655100957	HUNİ
BNM	1091	8682655101091	ROYAL SÜRAHİ
BNM	1138	8682655101138	2 LT PEGGY UZUN DİKTÖRTGEN SAKLAMA KABI
BNM	1152	8682655101152	3.2 LT PEGGY UZUN DİKTÖRTGEN SAKLAMA KABI

-END OF REPORT-