

TEST REPORT



TL-961 72220820183 (R2) 02.01.2023

LAB LOCATION: TURKEY

LAB NO.: (7222)082-0183 (Revision 2)

SERVICE TYPE: Regular DATE IN: March 23, 2022 DATE OUT: May 27, 2022

REVISION DATE: June 28, 2022

SECOND REVISION DATE: January 03, 2023

TİTİZ PLASTİK DIŞ. TİC. ve SAN. LTD. ŞTİ. **COMPANY NAME**

(duygu.ugur@titizplastik.com)

ACCORDION CANISTER SAMPLE DESCRIPTION

MODEL/STYLE NO TP-645, SEE APPENDIX C

NAN NO

MANUFACTURER

PRODUCTION DATE

COUNTRY OF ORIGIN

COUNTRY OF DESTINATION

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*	P				
Overall Migration with 10% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245*	P				
Overall Migration with 95% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245*	P				
* IAS Accredited Tests					

C/N GG/EY

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any our present county, or consider the construction of the constr





72220820183 (R2)

02.01.2023

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*	Р			
Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) 2020/1245*	P			
Sensory Test (Odour and Taste) - Simulant Water	P			
Colorfastness of Plastic	P			
Visible Color Migration from Plastic Materials Coming Into Contact with Foodstuff	P			
Phthalates*	P			
Polycyclic Aromatic Hydrocarbons (PAHs)*	P			
Specific Migration of Phthalates for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245	Р			
Specific Migration of Bisphenol A for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245	P			
Total Lead in Non-Metal Substrate*	P			
Total Cadmium (Cd) Content *	P			
Total Heavy Metal In Substrate	P			
Peroxides Value	P			
Bisphenol A (BPA) Content*	P			
Specific Migration of Primary Aromatic Amine for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 2020/1245 and Its Amendments	P			
Short Chain Chlorinated Paraffins (SCCPs) Content*	P			

REMA	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: "Specific Migration of Primary Aromatic Amine for Plastic Materials in Contact with Foodstuffs" test analysis has been performed by BV- HONG KONG Laboratories as subcontracted. [Report No:52220870544].

REMARK 7: 72220820183 (Revision) test report dated June 28, 2022 is not valid, it is replaced by this report 72220820183 (Revision 2).



72220820183

02.01.2023

REMARK 8: As per client's request, material type info "Short Chain Chlorinated Paraffins (SCCPs) Content*" test result, test results of 1st & 2nd cycle for "Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) 2020/1245, Specific Migration of Bisphenol A for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245 and Specific Migration of Phthalates for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245 *" tests and Appendix C" have been added to the test report.

REMARK 9: As per client's request "Material" component has been changed.

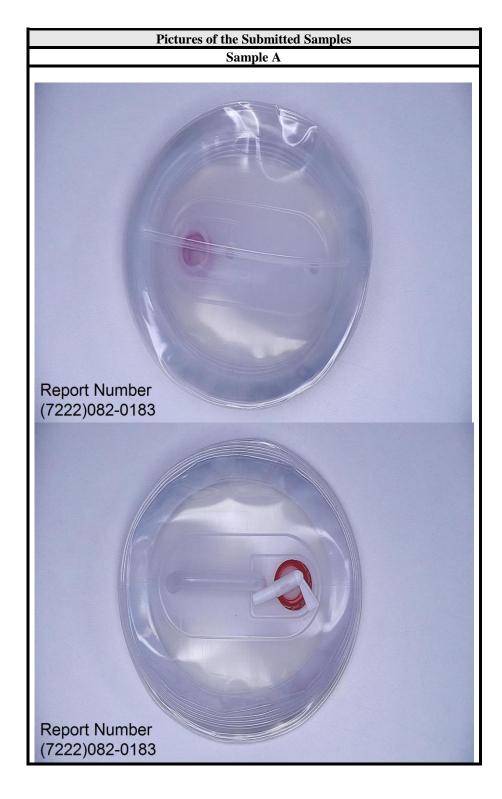
Bureau Veritas Consumer Products Services Turkey BV CPS Test Lab. Ltd. Sti.

Muhammet Ozbay Client Team Lead Hasan Altingul Deputy Operations Manager



72220820183 (R2)

02.01.2023





72220820183 (R2)

02.01.2023

Component List / List of Materials for Chemical Tests					
Sample	Item No	Component	Material	Color	
A	I001	Main	PE-LDPE	Transparent	



72220820183 (R2)

02.01.2023

ommission Regu Test Method	With reference to Commi		11 of 14 January 2011 Annex III				
		n of condition and EN 1186-1 fo					
EN 1186-9 aqueous food simulants by article immersion method							
Test Conditions: 10 days at 40°C, 3rd cycle							
Simulant Used	1: 3% Acetic Acid (W/V) A	queous Solution					
		Docult(s) (mg/dm²)					
		Result(s) (mg/dm²) I001					
	1 st Migration	2 nd Migration	3 rd Migration				
Trial 1 :	<2.5	<2.5	<2.5				
Trial 2 :	<2.5	<2.5	<2.5				
Trial 3 :	<2.5	<2.5	<2.5				
Average:	<2.5	<2.5	<2.5				
Conclusion:		Pass					
		lecimeter of foodstuff in contact	with				
	ting Limit: 2,5 mg/dm ²						
Permiss	sible 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 aqueous simulants is 2 mg/dm² 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. 							
	ne volume of simulant used		' f = - 1 - t - cff : t : t 1-				
		plume ratio is 0.6 dm ² per 1 kg of					
6 1 <i>c</i>	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. Or	Commission Regulation (E	U) No 10/2011 of 14 January 20					



72220820183 (R2)

02.01.2023

_	ntion with 10% Ethanol egulation (EU) No. 2020/1		Contact with Foodstuffs per				
		nission Regulation (EU) No 10/20	11 of 14 January 2011 Annex III				
	and Annex V for selection	on of condition and EN 1186-1 for	r selection of test methods;				
	•	d simulants by article immersion n	nethod				
Test Conditions: 10 days at 40°C, 3rd cycle							
Simulant Used: 10% Ethanol (W/V) Aqueous Solution							
		Result(s) (mg/dm ²)					
		I001					
	1 st Migration	2 nd Migration	3 rd Migration				
Trial 1 :	<2.5	<2.5	<2.5				
Trial 2:	<2.5	<2.5	<2.5				
Trial 3:	<2.5	<2.5	<2.5				
Average:	<2.5	<2.5	<2.5				
Conclusion:		Pass					
m	C = degree Celsius ng/kg = milligram per kilogram ng/dm ² = milligram per square	n of foodstuff in contact with decimeter of foodstuff in contact v	with				
	porting Limit: 2,5 mg/dm ² missible Limit: 10 mg/dm ²						
2. 3. 4. 5. 6.	 Remark(s): 1. 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. 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 0.1 L. The ratio of surface area to volume ratio is 0.6 dm² 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 an calculation of the result.	rea of cap, gaskets, stopper or sin	nilar sealing article is applied in the				





72220820183 (R2)

02.01.2023

Overall Migration with 95% Ethanol for Plastic Materials in Contact with Foodstuffs per							
	Commission Regulation (EU) No. 2020/1245* Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III						
			of condition and EN 1186-1 for s	selection of test methods;			
EN 1186-14 substitute test.							
		10 days at 40°C, 3 rd cycle					
Simulant	Used:	95% Ethanol (V/V) Aqueo	ous Solution				
		F	Result(s) (mg/dm ²)				
			I001				
		1st Migration	2 nd Migration	3 rd Migration			
Trial 1	:	<2.5	<2.5	<2.5			
Trial 2	:	<2.5	<2.5	<2.5			
Trial 3	:	<2.5	<2.5	<2.5			
Average	::	<2.5	<2.5	<2.5			
Conclusion	:	<u>.</u>	Pass				
Note(s):	n.d. = 1	not detected					
	$^{\circ}C = dc$	egree Celsius					
	mg/kg	= milligram per kilogram o	of foodstuff in contact with				
	mg/dm	² = milligram per square de	ecimeter of foodstuff in contact wi	th			
			le oil is recommended for compli				
	of the	sample is not Nylon, PV	C, Organic Coating, Hard and	Rigid Plastics, PS, SAN, ABS,			
	Melam	ine.					
R	Reporti	ng Limit : 2,5 mg/dm ²					
		ole Limit : 10 mg/dm ²					
		•	Commission Regulation (EU) No	10/2011 of 14 January 2011 with			
Kemai K(S).		ndments.	Commission Regulation (EC) No	10/2011 01 14 January 2011 With			
	_		od simulants is 3 mg/dm ² or 20 m	g/kg.			
			re specified by client,/ according				
	No	10/2011 of 14 January 201	1 with amendments.				
	4. The	volume of simulant used i	s 0.1 L.				
	5. The	ratio of surface area to vol	lume ratio is 0.6 dm ² per 1 kg of for	oodstuff in contact with.			
			rea of whole article is applied				
			ulation (EU) No 10/2011 of 14 Jan				
			a of cap, gaskets, stopper or simil	ar sealing article is applied in the			
	calc	ulation of the result.					





72220820183 (R2)

02.01.2023

	ation with Isooctane for Pla Regulation (EU) 2020/1245	astic Materials in Contact wit	th Foodstuffs per		
Test Method:	With reference to Comm III and Annex V for sel	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	s: 2 days at 20°C	(3 rd Migration)			
Simulant Used	Isooctane	•			
]	Result(s) (mg/dm ²)			
		I001			
	1 st Migration	2 nd Migration	3 rd Migration		
Trial 1		<2.5	<2.5		
Trial 2	: <2.5	<2.5	<2.5		
Trial 3	: <2.5	<2.5	<2.5		
Average	: <2.5	<2.5	<2.5		
Conclusion	:	Pass			
Note(s):	n.d. = not detected				
	°C = degree Celsius				
	mg/kg = milligram per kilograr	m of foodstuff in contact with			
	* Further verification by veg	e decimeter of foodstuff in contact getable oil is recommended for olylon, PVC, Organic Coating, Ha	compliance confirmation if the		
R	Limit : 2,5 mg/dm ²				
Pe	rmissible Limit: 10 mg/dm ²				
	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/dm² or 20 mg/kg 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 0.1 L. The ratio of surface area to volume ratio is 0.6 dm² 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 Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result.				

72220820183 (R2)

02.01.2023

TEST RESULTS

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

	Simulant Used			Results		Maximum
Parameter		Unit	1 st cycle	I001 2 nd cycle	3 rd cycle	Allowable Limit
		. 2				
Food contact surface area	-	dm ²	0.6	0.6	0.6	-
Volume of simulant used	-	mL	100	100	100	-
Aluminum (Al)	3% Acetic acid	mg/kg	< 0.1	< 0.1	< 0.1	1
Barium (Ba)	3% Acetic acid	mg/kg	< 0.1	< 0.1	< 0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	0.05
Copper (Cu)	3% Acetic acid	mg/kg	< 0.5	< 0.5	< 0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	<5	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	< 0.1	< 0.1	< 0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	< 0.1	< 0.1	< 0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	<3	<3	5
Nickel (Ni)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	0.02
Antimony (Sb)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	0.04
Europium (Eu)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	0.05
Gadolinium (Gd)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	0.05
Lanthanum (La)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	0.05
Terbium (Tb)	3% Acetic acid	mg/kg	< 0.01	< 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	<0.01	0.05
Arsenic (As)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	ND
Cadmium (Cd)	3% Acetic acid	mg/kg	< 0.002	< 0.002	< 0.002	ND (0.002)
Chromium (Cr)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	ND
Lead (Pb)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	ND
Mercury (Hg)	3% Acetic acid	mg/kg	< 0.01	< 0.01	< 0.01	ND
Conclusion	-	-	PASS	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. 2020/1245

2) Selected tests were specified by client.



72220820183 (R2)

02.01.2023

TEST RESULTS

Sensory Test (Odour and Taste) - Simulant Water

Test method: BV CPS In House Method, CPSD-AN-00084-MTHD, DIN 10955

Test condition: Water, 10 Days– 40^oC

-					
Tested Item(s)	Parameter	Limit	Conc.	Unit	Conc.
I001	Change of Odour	≤ 2.5	0.5	-	Pass
1001	Change of Taste	≤ 2.5	0.5	-	Pass

Off-odour in comparison with control

0 = no perceptible off-odour

1 = off-odour just perceptible (but still difficult to define)

2 = slight off-odour

3 = distinct off-odour

4 = strong off-odour

Off-taste in comparison with control

0 = no perceptible off-taste

1 = off-taste just perceptible (but still difficult to define)

2 = slight off-taste

3 = distinct off-taste

4 = strong off-taste



72220820183 (R2)

02.01.2023

TEST RESULTS

Colorfastness of Plastics

Test method: CPSD-AN-00759-MTHD

Test Condition: 5 hours, 50°C

Tested Item(s) I001	Result (Grade) %2 Acetic Acid	Result (Grade) 10% Ethanol	Limit (Grade)
Colorfastness	5	5	5
Conclusion	PASS		



72220820183 (R2)

02.01.2023

TEST RESULTS

<u>Visible Color Migration from Plastic Materials Coming Into Contact with Foodstuff</u>

Test Method: CPSD-AN-00109-MTHD

Test Condition: 10 days at 40°C, 3rd cycle

Tested Item(s)	Result 1 st cycle	Permissible Limit	Conclusion
Visible Color Migration	%99	>95% optical transmission	Pass

Tested Item(s)	Result 2 nd cycle	Permissible Limit	Conclusion
Visible Color Migration	%99	>95% optical transmission	Pass

Tested Item(s)	Result 3 rd cycle	Permissible Limit	Conclusion
Visible Color Migration	%99	>95% optical transmission	Pass



72220820183 (R2)

02.01.2023

TEST RESULT

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	Unit	Conclusion	
	DBP (Dibutylphthalate)	ND	mg/kg	PASS
	BBP (Butylbenzylphthalate)	ND	mg/kg	PASS
I 001	DEHP (Di(2-ethylhexyl)-phthalate)	ND	mg/kg	PASS
	DNOP (Di-n-octylphthalate)	ND	mg/kg	PASS
	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 = Not detected ">"
% = percent = 10000 mg/kg mg.
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:

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



72220820183 (R2)

02.01.2023

TEST RESULTS

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

Test method: With reference to test method mentioned in German AfPS GS 2014:01 PAK.

Parameter	Unit	Results	Requirement
-	-	I001	
Naphthalene	mg/kg	ND	
Benzo (a) anthracene (BaA)	mg/kg	ND	
Chrysene (CHR)	mg/kg	ND	
Benzo (b) fluoranthene (BbF)	mg/kg	ND	
Benzo (j) fluoranthene (BjF)	mg/kg	ND	
Benzo (k) fluoranthene (BkF)	mg/kg	ND	Each of 18 PAHs < 0.2
Benzo (e) pyrene (BaP)	mg/kg	ND	mg/kg
Benzo (a) pyrene (BeP)	mg/kg	ND	
Indeno (1,2,3-cd) pyrene (IPY)	mg/kg	ND	
Dibenzo (a,h) anthracene (DBA)	mg/kg	ND	
Benzo (g,h,i) perylene (BPE)	mg/kg	ND	
Phenanthrene (PHE)	mg/kg	ND	
Anthracene (ANT)	mg/kg	ND	
Fluoranthene (FLT)	mg/kg	ND	
Pyrene (PYR)	mg/kg	ND	
Conclusion	-	PASS	

Remark1

Note:

ND = Not detected

% = percent = 10000 mg/kgDetection Limit (mg/kg): Each 0.2 ">" = More than

mg/kg = milligram per kilogram

Conc. = Concentration

Remark2:

The list of phthalates is summarized in table of Appendix



72220820183 (R2)

02.01.2023

TEST RESULT

Bisphenol A (BPA) Content

Test Method : BV CPS In House Method CPSD-AN-00169 MTHD

Limit :	0.1 mg/kg

Test Item(s)	Result	Unit	Conclusion
I001	0.028	mg/kg	PASS

Note / Key:

 $ND = Not \ detected \\ mg/kg = milligram(s) \ per \ kilogram = ppm = part(s) \ per \ million \ No. = Number \\ Detection \ Limit (\ mg/kg) - 0.1$



72220820183 (R2)

02.01.2023

TEST RESULTS

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

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

	Simulant		Result I001			Maximum Allowable Limit
Parameter	Used	Unit	(1st cycle)	(2 nd cycle)	(3rd cycle)	
Butyl benzyl phthalate (BBP)	3% Acetic acid	mg/kg	<0.3	<0.3	<0.3	30
Di-2-ethylhexyl phthalate (DEHP)	3% Acetic acid	mg/kg	<0.3	<0.3	<0.3	1.5
Dibutyl phthalate (DBP)	3% Acetic acid	mg/kg	<0.3	<0.3	< 0.3	0.3
Di-iso-decyl phthalate (DIDP) and Di-iso-nonyl phthalate (DINP)	3% Acetic acid	mg/kg	<0.6	<0.6	<0.6	9
Conclusion	-	-		PASS		-

Note: "<" = less than mg/kg =

milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Liquid Chromatograph Mass Spectrometer (LC-MS).

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



72220820183 (R2)

02.01.2023

TEST RESULTS

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

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	0.6	-
Volume of stimulant used	-	mL/g	100	
	3% Acetic acid (1st cycle)	mg/l	< 0.01	
	3% Acetic acid (2 nd cycle)	mg/l	< 0.01	0.05
	3% Acetic acid (3 rd cycle)	mg/l	< 0.01	
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



72220820183 (R2)

02.01.2023

TEST RESULT

TOTAL CADMIUM CONTENT

Test Method In House Test Method CPSD-AN-00004-MTHD

Parameter	Unit	Results	Requirement by Client
-	-	I001	-
Total Cadmium (Cd)	ppm	ND	100
Conclusion	-	PASS	-

Note / Key:

">" = Greater than ND = Not detected mg/kg = milligram(s) per kilogram = ppm = part(s) per million 10 000 mg/kg = 1 % % = percent

Detection Limit (mg/kg): 10

No. = Number(s)

TOTAL LEAD IN NON-METAL SUBSTRATE

Test Method In House Test Method CPSD-AN-00196-MTHD

Parameter	Unit	Results	Requirement by Client
-	-	I001	-
Total Lead (Pb)	ppm	ND	500
Conclusion	-	PASS	-

Note / Key:

">" = Greater than ND = Not detected $mg/kg = milligram(s) \; per \; kilogram = ppm = part(s) \; per \; million$

10000 mg/kg = 1 %% = percent

Detection Limit (mg/kg): 10



72220820183 (R2)

02.01.2023

TEST RESULT

TOTAL HEAVY METAL in SUBSTRATE

Test Method: By In House Test Method CPSD-AN-00164-MTHD

LIMIT	REQUIREMENT
Zirconium (Zr)	100
Chromium (Cr)	10
Hafnium (Hf)	100
Vanadium (V)	20

Parameter	Unit	Result
-	-	I001
Zirconium (Zr)	mg/kg	ND
Chromium (Cr)	mg/kg	ND
Hafnium (Hf)	mg/kg	ND
Vanadium (V)	mg/kg	ND
Conclusion	-	PASS

Note-Remark:

ND = Not detected ">" = Greater than

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

Detection Limit: Cr, V: 1 mg/kg; Zr,Hf: 10 mg/kg



72220820183 (R2)

02.01.2023

TEST RESULTS

PEROXIDES VALUE

Test Method: In House Test Method CPSD-AN-00157-MTHD

Donomoton	Results	Requirement
Parameter	I001	
Peroxides Value	Absent	Absent
Conclusion	PASS	-

Short Chain Chlorinated Paraffins (SCCPs) Content

Test Method : In House Test Method – CPSD-AN-00810-MTHD

Limit: Less than 1500 mg/kg

Test Item(s)	Result	Unit	Conclusion
I001	ND	mg/kg	PASS

Note / Key:

ND = Not detected ">" = Greater than mg/kg = milligram(s) per kilogram = ppm = part(s) per million

10 000 mg/kg = 1 %

% = percent Detection Limit (mg/kg): 30

Remark:

- Short chain chlorinated paraffins (SCCPs) is also known as alkanes C10-C13, chloro.
- Plastics and leather of product(s) are applicable to be tested only.

TL-961 72220820183 (R2)

02.01.2023

TEST RESULTS

<u>Specific Migration of Primary Aromatic Amine for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 2020/1245 and Its Amendments</u>

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

			Maximum		
Parameter	Unit		Allowable		
2 42 42-10-002	0 222	1 st Migration	2 nd Migration	3 rd Migration	Limit
Food contact surface area	dm^2	1.00	1.00	1.00	-
Volume of simulant used	mL	167	167	167	-
Aniline	mg/kg	< 0.002	< 0.002	< 0.002	
2,4-Dimethylaniline / 2,4-xylidine	mg/kg	< 0.002	< 0.002	< 0.002	
2,6-Dimethylaniline / 2,6-xylidine	mg/kg	< 0.002	< 0.002	< 0.002	
m-Phenylenediamine / 1,3-phenylenediamine	mg/kg	< 0.002	< 0.002	< 0.002	0.01 (sum)
p-Phenylenediamine / 1,4-phenylenediamine	mg/kg	< 0.002	< 0.002	< 0.002	
2,6-Toluenediamine	mg/kg	< 0.002	< 0.002	< 0.002	
1,5-Diaminenaphthalene	mg/kg	< 0.002	< 0.002	< 0.002	
Conclusion	-	PASS	PASS	PASS	-

			- Maximum Allowable		
Parameter	Unit				
		1 st Migration	2 nd Migration	3 rd Migration	Limit
Food contact surface area	dm ²	1.00	1.00	1.00	-
Volume of simulant used	mL	167	167	167	-
4-aminobiphenyl / 4-biphenylamine	mg/kg	< 0.002	< 0.002	< 0.002	0.002
o-anisidine / 2- methoxyaniline	mg/kg	< 0.002	< 0.002	< 0.002	0.002
Benzidine	mg/kg	< 0.002	< 0.002	< 0.002	0.002
4-Chloro-aniline / p-chloroaniline	mg/kg	< 0.002	< 0.002	< 0.002	0.002
4-Chloro-o-toluidine	mg/kg	< 0.002	< 0.002	< 0.002	0.002
4,4'- Diaminodiphenylether / 4,4'-oxydianiline	mg/kg	<0.002	<0.002	<0.002	0.002
4,4'-Methylenedianiline / 4,4'-diamino- diphenylmethane	mg/kg	<0.002	<0.002	<0.002	0.002
4,4-Methylenedi-o- toluidine / 3,3'-dimethyl- 4,4'- diaminodiphenylmethane	mg/kg	<0.002	<0.002	<0.002	0.002



72220820183 (R2)

02.01.2023

	1 1		T	1	1
2-Methoxy-5-	4	0.002	0.002	0.002	0.002
methylaniline / p-	mg/kg	< 0.002	< 0.002	< 0.002	0.002
cresidine					
4-Methoxy-m-	4	0.002	0.002	0.002	0.002
phenylenediamine / 2,4-	mg/kg	< 0.002	< 0.002	< 0.002	0.002
diaminoanisole					
o-Toluidine / 2-	mg/kg	< 0.002	< 0.002	< 0.002	0.002
aminotoluene		0.002	0.000	0.002	0.002
2,4-Toluenediamine	mg/kg	<0.002	<0.002	<0.002	0.002
3,3-Dimethylbenzidine	mg/kg	< 0.002	< 0.002	< 0.002	0.002
2,4,5-Trimethylaniline	mg/kg	< 0.002	< 0.002	< 0.002	0.002
m-Phenylenediamine /	mg/kg	< 0.002	< 0.002	< 0.002	0.002
1,3-phenylenediamine	mg/Kg			V0.002	
2-naphthylamine	mg/kg	< 0.002	< 0.002	< 0.002	0.002
o-aminoazotoluene/ 4-					
amino-2',3-	mg/kg	< 0.002	< 0.002	< 0.002	0.002
dimethylazobenzene/ 4-o-	mg/Kg	<0.002	\0.002	\0.002	0.002
tolylazo-o-toluidine					
5-nitro-o-toluidine	mg/kg	< 0.002	< 0.002	< 0.002	0.002
3,3'-dichlorobenzidine	mg/kg	< 0.002	< 0.002	< 0.002	0.002
3,3'-dimethoxybenzidine /	mg/kg	< 0.002	< 0.002	< 0.002	0.002
o-dianisidine	mg/kg	<0.002	<0.002	<0.002	0.002
4,4'-methylene-bis-(2-					
chloro-aniline) / 2,2'-	ma/ka	< 0.002	< 0.002	< 0.002	0.002
dichloro-4,4'-methylene-	mg/kg	<0.002	<0.002	<0.002	0.002
dianiline					
4,4'-thiodianiline	mg/kg	< 0.002	< 0.002	< 0.002	0.002
4-amino azobenzene	mg/kg	< 0.002	< 0.002	< 0.002	0.002
Conclusion	-	PASS	PASS	PASS	-

Note: "<" = less than

mg/kg = milligram per kilogram

Method: EN 13130-1: 2004, LC-MS/LC-MS/MS analysis.

Remark: 1) The migration test is carried out according to EC Regulation No. 10/2011 and the

corresponding regulatory statutes.

2) Selected test, test simulant, test condition were specified by client.



72220820183 (R2)

02.01.2023

APPENDIX A

List o	f 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 (iPnPP)	776297-69-9	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)	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

APPENDIX B

List o	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	-	-				



72220820183 (R2)

02.01.2023

APPENDIX C

Aşağıda yazılan ürünler ile "Test edilen" ürün aynı hammadde ve renkte üretilmiştir.

The below products have been produced with the same raw material and color as the "Tested" products.

AP-9500 AP-9426 AP-9261 KC-207 KC-386 KC-102 TP-489 TP-730 TP-329 AP-9501 AP-9427 AP-9073 KC-210 KC-240 KC-103 TP-134 TP-731 TP-204 AP-9502 AP-9429 AP-9187 KC-211 KC-301 KC-104 TP-242 TP-732 TP-670 AP-9503 AP-9432 AP-9188 KC-212 KC-302 KC-105 AP-9255 TP-733 TP-205 AP-9504 AP-9434 AP-9189 KC-245 KC-305 KC-345 TP-616 TP-734 TP-293 AP-9505 AP-9443 AP-9184 KC-246 KC-360 KC-353 TP-596 TP-735 TP-193 AP-9506 AP-9444 AP-9161 KC-247 KC-381 KC-355 TP-597 TP-736 TP-173 AP-9507 AP-9449 AP-9167 KC-248 KC-382 KC-356 TP-598 TP-737 TP-170 AP-9508 AP-9454 AP-9167 KC-251 KC-383
AP-9502 AP-9429 AP-9187 KC-211 KC-301 KC-104 TP-242 TP-732 TP-670 AP-9503 AP-9432 AP-9188 KC-212 KC-302 KC-105 AP-9255 TP-733 TP-205 AP-9504 AP-9434 AP-9189 KC-245 KC-305 KC-345 TP-616 TP-734 TP-293 AP-9505 AP-9443 AP-9184 KC-246 KC-360 KC-353 TP-596 TP-735 TP-193 AP-9506 AP-9444 AP-9161 KC-247 KC-381 KC-355 TP-597 TP-736 TP-173 AP-9507 AP-9449 AP-9169 KC-248 KC-382 KC-356 TP-598 TP-737 TP-170 AP-9508 AP-9454 AP-9167 KC-251 KC-383 KC-357 TP-660 TP-738 TP-182 AP-9509 AP-9455 AP-9226 KC-255 KC-390 KC-363 TP-269 TP-739 TP-203 AP-9510 AP-9458 AP-9280 KC-257 KC-391
AP-9503 AP-9432 AP-9188 KC-212 KC-302 KC-105 AP-9255 TP-733 TP-205 AP-9504 AP-9434 AP-9189 KC-245 KC-305 KC-345 TP-616 TP-734 TP-293 AP-9505 AP-9443 AP-9184 KC-246 KC-360 KC-353 TP-596 TP-735 TP-193 AP-9506 AP-9444 AP-9161 KC-247 KC-381 KC-355 TP-597 TP-736 TP-173 AP-9507 AP-9449 AP-9169 KC-248 KC-382 KC-356 TP-598 TP-737 TP-170 AP-9508 AP-9454 AP-9167 KC-251 KC-383 KC-355 TP-660 TP-738 TP-182 AP-9509 AP-9454 AP-9167 KC-251 KC-383 KC-365 TP-660 TP-738 TP-182 AP-9509 AP-9455 AP-9226 KC-255 KC-390 KC-363 TP-269 TP-739 TP-203 AP-9510 AP-9458 AP-9280 KC-256 KC-391
AP-9504 AP-9434 AP-9189 KC-245 KC-305 KC-345 TP-616 TP-734 TP-293 AP-9505 AP-9443 AP-9184 KC-246 KC-360 KC-353 TP-596 TP-735 TP-193 AP-9506 AP-9444 AP-9161 KC-247 KC-381 KC-355 TP-597 TP-736 TP-173 AP-9507 AP-9449 AP-9169 KC-248 KC-382 KC-356 TP-598 TP-737 TP-170 AP-9508 AP-9454 AP-9167 KC-251 KC-383 KC-357 TP-660 TP-738 TP-182 AP-9509 AP-9454 AP-9167 KC-251 KC-383 KC-363 TP-269 TP-739 TP-203 AP-9509 AP-9455 AP-9226 KC-255 KC-390 KC-363 TP-269 TP-739 TP-203 AP-9510 AP-9458 AP-9280 KC-256 KC-391 KC-120 TP-136 TP-740 TP-202 AP-9511 AP-9461 AP-1085 KC-257 KC-392
AP-9505 AP-9443 AP-9184 KC-246 KC-360 KC-353 TP-596 TP-735 TP-193 AP-9506 AP-9444 AP-9161 KC-247 KC-381 KC-355 TP-597 TP-736 TP-173 AP-9507 AP-9449 AP-9169 KC-248 KC-382 KC-356 TP-598 TP-737 TP-170 AP-9508 AP-9454 AP-9167 KC-251 KC-383 KC-357 TP-660 TP-738 TP-182 AP-9509 AP-9455 AP-9226 KC-255 KC-390 KC-363 TP-269 TP-739 TP-203 AP-9510 AP-9458 AP-9280 KC-256 KC-391 KC-120 TP-136 TP-740 TP-202 AP-9511 AP-9459 AP-1084 KC-257 KC-392 KC-121 TP-326 TP-741 TP-497 AP-9512 AP-9461 AP-1085 KC-261 KC-393 KC-122 TP-135 TP-742 TP-500 AP-9513 AP-9469 AP-1088 KC-385 KC-394
AP-9506 AP-9444 AP-9161 KC-247 KC-381 KC-355 TP-597 TP-736 TP-173 AP-9507 AP-9449 AP-9169 KC-248 KC-382 KC-356 TP-598 TP-737 TP-170 AP-9508 AP-9454 AP-9167 KC-251 KC-383 KC-357 TP-660 TP-738 TP-182 AP-9509 AP-9455 AP-9226 KC-255 KC-390 KC-363 TP-269 TP-739 TP-203 AP-9510 AP-9458 AP-9280 KC-256 KC-391 KC-120 TP-136 TP-740 TP-202 AP-9511 AP-9459 AP-1084 KC-257 KC-392 KC-121 TP-326 TP-741 TP-497 AP-9512 AP-9461 AP-1085 KC-261 KC-393 KC-122 TP-135 TP-742 TP-500 AP-9513 AP-9469 AP-1088 KC-385 KC-394 KC-123 TP-186 TP-743 TP-641 AP-9514 AP-9473 AP-1023 KC-519 KC-395
AP-9507 AP-9449 AP-9169 KC-248 KC-382 KC-356 TP-598 TP-737 TP-170 AP-9508 AP-9454 AP-9167 KC-251 KC-383 KC-357 TP-660 TP-738 TP-182 AP-9509 AP-9455 AP-9226 KC-255 KC-390 KC-363 TP-269 TP-739 TP-203 AP-9510 AP-9458 AP-9280 KC-256 KC-391 KC-120 TP-136 TP-740 TP-202 AP-9511 AP-9459 AP-1084 KC-257 KC-392 KC-121 TP-326 TP-741 TP-497 AP-9512 AP-9461 AP-1085 KC-261 KC-393 KC-122 TP-135 TP-742 TP-500 AP-9513 AP-9469 AP-1088 KC-385 KC-394 KC-123 TP-186 TP-743 TP-641 AP-9514 AP-9473 AP-1023 KC-519 KC-395 KC-126 TP-656 TP-744 TP-231 AP-9515 AP-9475 AP-1024 KC-530 KC-396
AP-9508 AP-9454 AP-9167 KC-251 KC-383 KC-357 TP-660 TP-738 TP-182 AP-9509 AP-9455 AP-9226 KC-255 KC-390 KC-363 TP-269 TP-739 TP-203 AP-9510 AP-9458 AP-9280 KC-256 KC-391 KC-120 TP-136 TP-740 TP-202 AP-9511 AP-9459 AP-1084 KC-257 KC-392 KC-121 TP-326 TP-741 TP-497 AP-9512 AP-9461 AP-1085 KC-261 KC-393 KC-122 TP-135 TP-742 TP-500 AP-9513 AP-9469 AP-1088 KC-385 KC-394 KC-123 TP-186 TP-743 TP-641 AP-9514 AP-9473 AP-1023 KC-519 KC-395 KC-126 TP-656 TP-744 TP-231 AP-9515 AP-9475 AP-1024 KC-530 KC-396 KC-127 TP-658 TP-745 TP-230 AP-9516 AP-9477 AP-1583 KC-531 KC-401
AP-9509 AP-9455 AP-9226 KC-255 KC-390 KC-363 TP-269 TP-739 TP-203 AP-9510 AP-9458 AP-9280 KC-256 KC-391 KC-120 TP-136 TP-740 TP-202 AP-9511 AP-9459 AP-1084 KC-257 KC-392 KC-121 TP-326 TP-741 TP-497 AP-9512 AP-9461 AP-1085 KC-261 KC-393 KC-122 TP-135 TP-742 TP-500 AP-9513 AP-9469 AP-1088 KC-385 KC-394 KC-123 TP-186 TP-743 TP-641 AP-9514 AP-9473 AP-1023 KC-519 KC-395 KC-126 TP-656 TP-744 TP-231 AP-9515 AP-9475 AP-1024 KC-530 KC-396 KC-127 TP-658 TP-745 TP-230 AP-9516 AP-9477 AP-1583 KC-531 KC-401 KC-128 TP-679 TP-746 TP-229 AP-9517 AP-9479 AP-1086 KC-532 KC-402
AP-9510 AP-9458 AP-9280 KC-256 KC-391 KC-120 TP-136 TP-740 TP-202 AP-9511 AP-9459 AP-1084 KC-257 KC-392 KC-121 TP-326 TP-741 TP-497 AP-9512 AP-9461 AP-1085 KC-261 KC-393 KC-122 TP-135 TP-742 TP-500 AP-9513 AP-9469 AP-1088 KC-385 KC-394 KC-123 TP-186 TP-743 TP-641 AP-9514 AP-9473 AP-1023 KC-519 KC-395 KC-126 TP-656 TP-744 TP-231 AP-9515 AP-9475 AP-1024 KC-530 KC-396 KC-127 TP-658 TP-745 TP-230 AP-9516 AP-9477 AP-1583 KC-531 KC-401 KC-128 TP-679 TP-746 TP-229 AP-9517 AP-9479 AP-1086 KC-532 KC-402 KC-151 TP-506 TP-754 TP-624 AP-9518 AP-9480 AP-1087 KC-536 KC-405
AP-9511 AP-9459 AP-1084 KC-257 KC-392 KC-121 TP-326 TP-741 TP-497 AP-9512 AP-9461 AP-1085 KC-261 KC-393 KC-122 TP-135 TP-742 TP-500 AP-9513 AP-9469 AP-1088 KC-385 KC-394 KC-123 TP-186 TP-743 TP-641 AP-9514 AP-9473 AP-1023 KC-519 KC-395 KC-126 TP-656 TP-744 TP-231 AP-9515 AP-9475 AP-1024 KC-530 KC-396 KC-127 TP-658 TP-745 TP-230 AP-9516 AP-9477 AP-1583 KC-531 KC-401 KC-128 TP-679 TP-746 TP-229 AP-9517 AP-9479 AP-1086 KC-532 KC-402 KC-151 TP-506 TP-754 TP-624 AP-9518 AP-9480 AP-1087 KC-536 KC-405 KC-153 TP-508 TP-755 TP-623
AP-9512 AP-9461 AP-1085 KC-261 KC-393 KC-122 TP-135 TP-742 TP-500 AP-9513 AP-9469 AP-1088 KC-385 KC-394 KC-123 TP-186 TP-743 TP-641 AP-9514 AP-9473 AP-1023 KC-519 KC-395 KC-126 TP-656 TP-744 TP-231 AP-9515 AP-9475 AP-1024 KC-530 KC-396 KC-127 TP-658 TP-745 TP-230 AP-9516 AP-9477 AP-1583 KC-531 KC-401 KC-128 TP-679 TP-746 TP-229 AP-9517 AP-9479 AP-1086 KC-532 KC-402 KC-151 TP-506 TP-754 TP-624 AP-9518 AP-9480 AP-1087 KC-536 KC-405 KC-153 TP-508 TP-755 TP-623
AP-9513 AP-9469 AP-1088 KC-385 KC-394 KC-123 TP-186 TP-743 TP-641 AP-9514 AP-9473 AP-1023 KC-519 KC-395 KC-126 TP-656 TP-744 TP-231 AP-9515 AP-9475 AP-1024 KC-530 KC-396 KC-127 TP-658 TP-745 TP-230 AP-9516 AP-9477 AP-1583 KC-531 KC-401 KC-128 TP-679 TP-746 TP-229 AP-9517 AP-9479 AP-1086 KC-532 KC-402 KC-151 TP-506 TP-754 TP-624 AP-9518 AP-9480 AP-1087 KC-536 KC-405 KC-153 TP-508 TP-755 TP-623
AP-9514 AP-9473 AP-1023 KC-519 KC-395 KC-126 TP-656 TP-744 TP-231 AP-9515 AP-9475 AP-1024 KC-530 KC-396 KC-127 TP-658 TP-745 TP-230 AP-9516 AP-9477 AP-1583 KC-531 KC-401 KC-128 TP-679 TP-746 TP-229 AP-9517 AP-9479 AP-1086 KC-532 KC-402 KC-151 TP-506 TP-754 TP-624 AP-9518 AP-9480 AP-1087 KC-536 KC-405 KC-153 TP-508 TP-755 TP-623
AP-9515 AP-9475 AP-1024 KC-530 KC-396 KC-127 TP-658 TP-745 TP-230 AP-9516 AP-9477 AP-1583 KC-531 KC-401 KC-128 TP-679 TP-746 TP-229 AP-9517 AP-9479 AP-1086 KC-532 KC-402 KC-151 TP-506 TP-754 TP-624 AP-9518 AP-9480 AP-1087 KC-536 KC-405 KC-153 TP-508 TP-755 TP-623
AP-9516 AP-9477 AP-1583 KC-531 KC-401 KC-128 TP-679 TP-746 TP-229 AP-9517 AP-9479 AP-1086 KC-532 KC-402 KC-151 TP-506 TP-754 TP-624 AP-9518 AP-9480 AP-1087 KC-536 KC-405 KC-153 TP-508 TP-755 TP-623
AP-9517 AP-9479 AP-1086 KC-532 KC-402 KC-151 TP-506 TP-754 TP-624 AP-9518 AP-9480 AP-1087 KC-536 KC-405 KC-153 TP-508 TP-755 TP-623
AP-9518 AP-9480 AP-1087 KC-536 KC-405 KC-153 TP-508 TP-755 TP-623
AP-9519 AP-9482 AP-1030 KC-537 KC-410 KC-154 TP-678 TP-756 TP-665
AP-9042 AP-9483 AP-1031 KC-539 KC-415 KC-155 TP-585 TP-783 TP-671
AP-9027 AP-9484 AP-1589 KC-540 KC-107 KC-157 TP-572 TP-784 TP-556
AP-9281 AP-9485 AP-1144 KC-541 KC-108 KC-158 TP-527 TP-785 TP-177
AP-9019 AP-9487 AP-1081 KC-542 KC-310 KC-159 TP-524 TP-786 TP-1352
AP-9022 AP-9491 AP-1091 KC-543 KC-311 KC-162 TP-522 TP-787 TP-181
AP-9095 AP-9492 AP-1097 KC-546 KC-312 KC-163 TP-569 TP-788 TP-615
AP-9068 AP-9493 AP-1585 KC-201 KC-313 KC-164 TP-161 TP-789 TP-310
AP-9066 AP-9494 AP-1587 KC-202 KC-314 KC-165 TP-184 TP-790 TP-309
AP-1053 AP-9497 AP-1239 KC-203 KC-315 KC-166 TP-107 TP-791 TP-305
AP-9080 AP-9498 AP-1238 KC-204 KC-316 KC-167 TP-138 TP-792 TP-504
AP-9196 AP-9499 AP-1128 KC-205 KC-317 KC-171 TP-705 TP-793 TP-1363
AP-9194 AP-9419 AP-9058 KC-206 KC-263 KC-172 TP-708 TP-794 TP-1364
AP-9069 AP-9420 AP-9174 KC-293 KC-264 KC-173 TP-704 TP-795 TP-210
AP-1046 AP-9421 AP-9175 KC-370 KC-358 KC-180 TP-707 TP-796 TP-495
AP-9197 AP-9422 AP-9037 KC-371 KC-359 KC-185 TP-198 TP-797 TP-498
AP-1059 AP-9423 AP-9038 KC-372 KC-346 KC-190 TP-194 TP-798 TP-636
AP-9011 AP-9424 AP-9039 KC-510 KC-199 KC-191 TP-290 TP-799 TP-227
AP-9149 AP-9425 AP-9040 KC-511 KC-200 KC-221 TP-294 TP-800 TP-691
AP-9296 AP-9426 AP-9041 KC-513 KC-320 KC-222 TP-587 TP-801 TP-567





72220820183 (R2)

02.01.2023

AP-9134	AP-9423	AP-9053	KC-515	KC-322	KC-224	TP-243	TP-803
AP-9224	AP-9424	AP-9050	KC-517	KC-323	KC-225	TP-300	TP-804
AP-1096	AP-9415	AP-1127	KC-518	KC-324	KC-226	TP-301	TP-805
AP-9246	AP-9416	AP-9096	KC-288	KC-325	KC-227	TP-493	TP-806
AP-9193	AP-9200	AP-9198	KC-289	KC-550	KC-229	TP-494	TP-807
AP-9195	AP-9052	AP-9447	KC-290	KC-285	KC-230	TP-256	TP-808
AP-9144	AP-9051	AP-9032	KC-291	KC-286	KC-231	TP-197	TP-809
AP-1251	AP-9446	AP-1252	KC-292	KC-287	KC-232	TP-138	TP-810
TP-266	TP-197	TP-566	KC-281	KC-269	KC-266	TP-194	TP-567
TP-620	TP-523	TP-288	KC-282	KC-270	KC-267	TP-294	TP-256
TP-421	TP-261	TP-183	KC-283	KC-280	KC-268	TP-261	TP-266
TP-879	AP-9015	AP-9419	AP-9138	AP-9414	TP-152	TP-331	TP-717
TP-873	AP-9059	AP-9128	AP-9448	AP-9404	TP-153	TP-335	TP-517
TP-874	AP-9060	AP-9179	AP-9065	AP-9406	TP-112	TP-336	TP-655
TP-875	AP-9310	AP-9147	AP-9364	AP-9127	TP-448	TP-330	TP-692
TP-864	AP-9306	AP-1457	AP-9360	AP-9425	TP-447	TP-505	TP-507
TP-865	AP-9305	AP-1466	AP-9363	AP-9244	TP-446	TP-435	TP-1358
TP-866	AP-9462	AP-1454	AP-9362	AP-9474	TP-286	TP-547	TP-1360
TP-614	AP-9463	AP-1455	AP-9361	AP-9122	TP-686	TP-503	TP-253
TP-657	AP-9154	AP-1452	AP-9366	AP-9225	TP-150	TP-578	TP-252
TP-573	AP-9153	AP-1451	AP-9365	AP-9467	TP-502	TP-105	TP-254
TP-574	AP-9152	AP-1458	AP-9359	AP-9466	TP-610	TP-103	TP-635
TP-575	AP-9115	AP-1453	AP-1042	AP-9428	TP-119	TP-106	TP-634
TP-576	AP-9114	AP-1058	AP-1004	AP-9220	TP-118	TP-857	TP-226
TP-577	AP-9113	AP-9321	AP-9441	AP-1070	TP-120	TP-208	TP-225
TP-259	AP-9112	AP-9320	AP-9437	AP-1064	TP-121	TP-200	TP-555
TP-125	AP-9111	AP-9193	AP-9435	AP-1069	TP-491	TP-201	TP-175
TP-680	AP-9124	AP-9192	AP-9438	AP-1066	TP-490	TP-778	TP-1351
TP-297	AP-9486	AP-9191	AP-9436	AP-1065	TP-267	TP-777	TP-178
TP-264	AP-9086	AP-9190	AP-9439	AP-1067	TP-265	TP-496	TP-117
TP-147	AP-9087	AP-9121	AP-9442	AP-1068	TP-235	TP-499	TP-1353
TP-493	AP-9260	AP-9142	AP-9440	AP-1072	TP-237	TP-621	TP-1357
TP-494	AP-9262	AP-9141	AP-9104	AP-9145	TP-113	TP-622	TP-681
AP-1198	AP-9460	AP-9140	AP-9103	AP-9116	TP-725	TP-593	TP-195
TP-528	AP-9388	AP-9132	AP-9101	AP-9445	TP-729	TP-592	TP-420
TP-529	AP-9269	AP-9131	AP-9102	AP-9257	TP-728	TP-594	TP-149
TP-530	AP-9268	AP-9130	AP-9007	AP-9157	TP-727	TP-492	TP-136
TP-533	AP-9267	AP-9077	AP-9119	AP-9156	TP-726	TP-557	TP-651
TP-534	AP-9266	AP-9047	AP-9110	AP-9263	TP-720	TP-558	TP-139
TP-535	AP-9272	AP-9046	AP-9109	AP-9155	TP-721	TP-590	TP-146
TP-564	AP-9265	AP-9043	AP-9108	AP-9258	TP-724	TP-168	TP-144
TP-342	AP-9271	AP-9048	AP-9107	AP-9158	TP-723	TP-131	TP-515
TP-343	AP-9270	AP-9045	AP-9002	AP-9049	TP-722	TP-114	TP-101
TP-115	AP-9082	AP-9044	AP-9430	TP-238	TP-701	TP-185	TP-516
TP-666	AP-9081	AP-9076	AP-9431	TP-239	TP-268	TP-109	TP-102
TP-811	AP-9199	AP-9159	AP-2001	TP-111	TP-132	TP-108	TP-158
TP-812	AP-9452	AP-9230	AP-1122	TP-180	TP-133	TP-176	TP-750
TP-813	AP-9451	AP-9092	AP-9001	TP-024	TP-260	TP-199	TP-749



72220820183 (R2)

02.01.2023

TP-814	AP-9450	AP-9091	AP-9312	TP-303	TP-255	TP-259	TP-748
TP-815	AP-9453	AP-9090	AP-9311	TP-221	TP-211	TP-501	TP-747
TP-816	AP-9222	AP-9143	AP-9089	TP-220	TP-190	TP-123	TP-752
TP-817	AP-9481	AP-9078	AP-9163	TP-360	TP-128	TP-148	TP-753
TP-298	AP-9010	AP-9079	AP-9021	TP-307	TP-179	TP-287	TP-130
TP-668	AP-9009	AP-9471	AP-9457	TP-540	TP-652	TP-284	TP-685
TP-520	AP-9020	AP-9470	AP-9456	TP-160	TP-667	TP-285	TP-154
TP-764	AP-9488	AP-9123	AP-9181	TP-851	TP-855	TP-550	TP-852
TP-765	AP-9011	AP-9233	AP-1222	TP-703	TP-218	TP-582	TP-320
TP-766	AP-9061	AP-9221	AP-2035	TP-328	TP-212	TP-304	TP-321
TP-767	AP-9029	AP-9249	AP-2036	TP-233	TP-333	TP-142	TP-583
TP-769	AP-9418	AP-9229	AP-1016	TP-234	TP-334	TP-127	TP-525
TP-216	AP-9417	AP-9303	AP-1338	TP-145	TP-340	TP-143	TP-189
TP-565	AP-9028	AP-9243	AP-9405	TP-653	TP-337	TP-126	TP-188
TP-214	AP-9031	AP-9146	AP-9413	TP-110S	TP-332	TP-853	TP-164



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