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Certfied services		
Tested Materials/Products	Types of test/Properties measured	Applied methods/Techniques used
Materials in contact with foodstuffs- Plastics	1. Overall migration into aqueous simulants (A, B, C) and simulant D1 (50% ethanol) by total immersion	EN 1186-3:2002
	2. Overall migration into aqueous simulants (A, B, C) and simulant D1 (50% ethanol) by article filling	EN 1186-9:2002
	3. Overall migration into aqueous simulants (A, B, C) and simulant D1 (50% ethanol) using a pouch	EN 1186-7:2002
	4. Overall migration into aqueous simulants (A, B, C) and simulant D1 (50% ethanol) by cell	EN 1186-5:2002
	5. Overall migration into simulant D2 (vegetable oil) by total immersion	In house method O.626 based on EN 1186-2:2002
	6. Overall migration into simulant D2 (vegetable oil) by article	In house method O.629 based on



	filling	EN 1186-8:2002
	7. Overall migration into simulant D2 (vegetable oil) using a pouch	In house method O.627 based on
		EN 1186-6:2002
	8. Overall migration into simulant D2 (vegetable oil) by cell	In house method O.633 based on EN 1186-4:2002
	9. Overall migration using simulant E (adsorption by poly(2,6-	In house method O.125 based on
	diphenyl-p-phenylene oxide)- Tenax®)	EN 1186-13 B:2002 &
		EN 14338:2003
	10. Overall migration into Substitutes of simulant D2 (Ethanol 95% and Isooctane) by using: total immersion, pouch, cell and filling.	EN 1186-14:2002
	11. Specific migration of Primary Aromatic Amines into aqueous simulants (A, B, C)	BVL L 00.00-6
	12. Specific migration of Bisphenol A into aqueous simulants (A, B,C) and simulant D ₁ (50% ethanol) and simulant D ₂ (vegetable oil)	In house method O.634/HPLC-FLD
	13. Specific migration of 10 Phthalate Esters into simulant D ₂ (vegetable oil): DMP:Dimethyl Phthalate DEP: Diethyl Phthalate	In house methodO.644 based on EN 13130-1:2004 & Food Additives and Contaminants, 1999, Vol. 16, No. 5, 197-206
	DIBP: Diisobutyl Phthalate	
	DBP: Dibutyl Phthalate	
	BBP: Benzyl-butyl Phthalate	
	DEHP: Bis (2-ethylhexyl) phthalate	
	DCHP: Dicyclohexyl Phthalate	
	DNOP: Di-n-octyl Phthalate	



	DINP: Diisononyl Phthalate DIDP: Diisodecyl Phthalate	
	14. Specific migration of metals into simulant 3% acetic: Al, As, Ba, Ca, Cd, Co, Cr, Cu, Eu, Fe, Gd, Hg, K, La, Li, Mg, Mn, Na, Ni, Pb, Sb, Tb, Zn.	In house method <i>O.522 based on ISO 17294-1:2004</i> & <i>ISO 17294-2:2016</i> / ICP-MS
	15. Specific migration of isophthalic and terephthalic acid into aqueous simulants (A, B, C) and simulant D ₁ (50% ethanol) and simulant D ₂ (vegetable oil)	In house method O.650 based on EN 13130-2
	16. Specific migration of Formaldehyde into aqueous simulants (A, B, C) and simulant D ₁ (50% ethanol)	In house method O.322 based on EN 13130-23:2005
Materials in contact with foodstuffs- Paper and board	1. Determination of Pentachlorophenol	In house method O.635 based on ISO 15320:2011
	2. Determination of Cadmium	In house method O.523/ ICP-MS
	3. Determination of Lead	In house method O.523/ ICP-MS
	4. Determination of Mercury	In house method O.523/ ICP-MS
	5. Determination of Formaldehyde in cold extract water	In house method O.322 based on EN 645:1994 και EN 1541:2001





CHIMAR HELLAS S.A

Company: CHIMAR HELLAS S.A

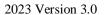
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Certfied services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Wood-based panels	Determination of formaldehyde release- Part 5: Extraction method (called the perforator method)	ELOT EN ISO 12460-5:2016
Wood-based panels	Determination of formaldehyde release – Part 3: Gas analysis method	ELOT EN ISO 12460-3:2020
Wood-based panels	Determination of moisture content	ELOT EN 322:1994 ISO 16979:2003





Andreou K. P.C.

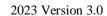
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Certfied services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Ceramic articles intended to come into contact with foodstuffs	1. Determination of cadmium migration	Laboratory method code: WP.M.043 In house method based on APHA* 3500-Cd-B and on the article 25 of C.A. / Atomic Absorption - Flame
	2. Determination of lead migration	Laboratory method code: WP.M.049 In house method based on APHA* 3500-Pb-B and on the article 25 of C.A. / Atomic Absorption - Flame





ARAL Co Ltd

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Certfied services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Glass hollow ware and Ceramic ware	Determination of the release of lead and cadmium	Internal method based on ISO 7086-1:2019 and method of Greek Food Code (art.25) by AAS(OE.016)





MIRTEC S.A

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Certfied services			
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used	
Materials and articles in contact with foodstuffs	Silicate surfaces – Part 1: Determination of the release of lead and cadmium from ceramic ware	ELOT EN 1388-1:1995	
Raw material or filings of final products (PE), (PP), (PS).	Determination of melt flow index (MFI).	ELOT EN ISO 1133:2011 (0,1 ÷ 25,0) g/10 min	
Samples (U-PVC), (PE), (PP), (PB).	Determination of softening temperature VICAT.	ELOT EN ISO 306 E3:2013, ELOT EN ISO 2507-1:2017, ELOT EN ISO 2507-1:2017 EΛΟΤ EN ISO 1452.02:2011, (10 ÷ 90) °C	



Fabrics, dyes and coatings, etc	Detection and Determination of Lead and Cadmium	In-house method based on ASTM E 1613-04 & ASTM E 1645-01 (2007), according to 16CFR Part 1303, CPSC-CH-E1003-09.1 and CPSC-CH-E1002-08. by Graphite Furnace Atomic Absorption Spectrometry (GFAAS) Techniques (microwave oven digestion)
Textile materials and products	1. Determination of phthalates	EN ISO 14389: 2015
	2. Determination of formaldehyde – Part 1: Free and hydrolyzed formaldehyde	ELOT EN ISO 14184-1: 2012
	3. Determination of certain aromatic amines derived from azo colorants (benzidine, 3,3'-dimethoxybenzidine)	In house method based on EN ISO 14362-1: 2017 by GC/MS
Emulsion Polymers	1. Determination of Free Formaldehyde	ASTM D5910-05 (2012)





Pack lab

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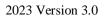
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Certfied services		
Tested Materials/Products	Tested Materials/Products	Tested Materials/Products
Materials in contact with food products	1. Overall migration in aqueous food simulant ethanol 10 %, 20 %, 50 %, acetic acid 3 % by total immersion.	EN 1186-3
	Overall migration in aqueous food simulant ethanol 10 %, 20 %, 50 %, acetic acid 3 % using a cell.	EN 1186-5
	3. Overall migration in aqueous food simulant ethanol 10 %, 20 %, 50 %, acetic acid 3 % by article filling.	EN 1186-9
	4. Overall migration using simulant E (adsorption by poly (2,6-diphenyl-phenylene oxide)- Tenax).	EN 1186-13
	5. Overall migration into substitutes of simulant D2 (Ethanol 95% and Isooctane) by total immersion, cell and article filling.	EN 1186-14



Flexible materials (e.g., plastic, paper)	Determination of the coefficients of friction (CoF)	ISO 8295:2004
Flexible materials (e.g., plastic, paper)	Determination of seal strength	DIN 55529:2005-09





Spectrum labs

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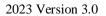
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Certfied services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Welds, metallic materials	Tensile test	EN ISO 6892-1: 2019
	(Proof Strength not included)	EN ISO 15614-1: 2017 & A1: 2019
		EN ISO 4136: 2022
		ASTM E8/E8M-21
		EΛΟΤ 1421-3: 2007
		EN 10080: 2005
		EN ISO 15630-1: 2019
		ASME IX: 2021 / QW 150
		EN ISO 5178: 2019
	Hardness test according to the Vickers	EN ISO 6507-1: 2018 (HV-10, HV-30) EN ISO





	method	9015-1: 2011
		ASTM E92-17
	Bend test	EN ISO 5173: 2010 & A1: 2011
		EN ISO 7438: 2020
		EAOT 934: 1988
		ASTM E290-14
		ASME IX: 2021 / QW 160
		EΛΟΤ 1421-3: 2007
		EN 10080: 2006
		EN ISO 15630-1: 2019
	Impact test according to the Charpy	EN ISO 9016: 2022
	method	EN ISO 148-1: 2016
		ASME IX: 2021 / QW 170
Welds, metallic and cast	Macroscopic and microscopic	EN ISO 17639: 2022
materials	examination	EN ISO 6520-1:2007
		ASTM E1351-01 (2020)
		ASME IX:2021 / QW 183
		EN ISO 15614-2:2005
Reinforced plastic composites	Determination of tensile properties	EN ISO 527-1: 2019
		EN ISO 527-4: 2021
	Determination of flexural properties	EN ISO 14125: 1998 & A1: 2011
		EN ISO 178: 2019
	Determination of the textile glass and mineral fillet content	EN ISO 1172: 1999
	Overall migration of substances in	EN 1186-1: 2002
Materials and articles	food simulants (aqueous, ethanol	EN 1186-3: 2002



in contact with	95%, isooctane) by total immersion or	EN 1186-9: 2002
foodstuffs — Plastics	article filling	EN 1186-14: 2002





HellasChem

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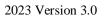
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Certfied services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Plastic materials and articles in contact wth foodstuffs	1. Determination of overall migration into aqueous food stimulants A, B, C and D1 by total immersion	ELOT EN 1186-1/2002 ELOT EN 1186-3/2002 by Gravimetry
	2. Determination of overall migration into fatty food stimulant D2 (ethanol 95°, isooctane), by total immersion	ELOT EN 1186-1/2002 ELOT EN 1186-14/2002 by Gravimetry
	3. Determination of overall migration into aqueous food stimulants A, B, C and D1 by article filling	ELOT EN 1186-1/2002 ELOT EN 1186-9/2002 by Gravimetry



4. Determination of overall migration into fatty food stimulant D2 (ethanol 95 ⁰ , isooctane), by article filling	ELOT EN 1186-1/2002 ELOT EN 1186-14/2002 by Gravimetry
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QACS Ltd. & Erganal

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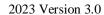
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Certfied services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Ceramic articles intended to come into contact with foodstuffs	1. Specific migration of Pb	In house method E_XM060 (atomic absorption / graphite oven) based on the Article 25 of Food and Drink Code
	2. Specific migration of Cd	In house method E_XM060 (atomic absorption / graphite oven) based on the Article 25 of Food and Drink Code





Paper - Cardboard	1. Determination of Lead (Pb) content	In house method E_XM051 based on the Article 24 of Food and Drink Code
	2. Determination of Cadmium (Cd) content	In house method E_XM051 based on the Article 24 of Food and Drink Code
	3. Determination of Mercury (Hg) content	In house method E_XM085 based on the Article 24 of Food and Drink Code
	4. Determination of Pentachlorophenol (PCP)	In house method E_XM084 based on 15320:2011
	5. Determination of extractable metals Lead (Pb) and Cadmium (Cd)	In house method E_XM084 based on BfR XXXVI
Packaging materials intended to come into contact with foodstuffs	1. Overall migration into aqueous food simulants (A, B, C) and in food simulant D1 (50% Ethanol) by total immersion.	EN 1186-3:2022
	2. Overall migration into aqueous food simulants (A, B, C) and in food simulant D1 (50% Ethanol) by cell.	EN 1186-5:2022
	3. Overall migration into aqueous food simulants (A, B, C) and in food simulant	EN 1186-9:2022





D1 (50% Ethanol) by article filling.	
4. Overall migration, into simulant D2 (vegetable oil) by total immersion.	EN 1186-2:2022
5. Overall migration, into simulant D2 (vegetable oil) by cell.	EN 1186-4:2022
6. Overall migration, into simulant D2 (vegetable oil) by article filling.	EN 1186-8:2022
7. Test methods for 'substitute tests' for overall migration from plastic materials and articles intended to come into contact with fatty foodstuffs using simulant D2 (ethanol 95% and Isooctane) by total immersion, cell and article filling.	EN 1186-14:2022
8. Overall migration to simulant E (poly(2,6-diphenyl-p-phenylene oxide - Tenax®))	EN 1186-13:2002 & EN 14338:2003
9. Determination of specific migration of Lead (Pb), and Cadmium (Cd) in simulant B (3% Acetic acid)	In house method E_XM086 based on EN1186:2022





	10. Determination of specific migration of Phthalates in simulant D2 (Vegetable Oil): DBP: Dibutyl Phthalate BBP: Benzyl-butyl Phthalate DEHP: Bis (2-ethylhexyl) phthalate DEHA: Dicyclohexyl Phthalate	_
	11. Semi-quantitative determination of specific migration of semi-volatile substances in simulant 95% Ethanol.	In house method E_XM090 based on EN1186:2022
Packaging Materials	Methods for assessing modifications to the flavour of foodstuffs due to packaging materials	ISO 13302:2003





EUROFINS Athens Analysis Laboratories S.A

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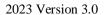
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Certfied services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Ceramic Materials	Determination of Specific Migration of lead and cadmium	In house method (OE-7.0-229) based on in Directive 84/500/EEC and in Directive 2005/31 / EC.
Packaging materials in contact with foodstuffs (plastics)	Overall migration into aqueous food simulants A (ethanol 10%) and D1 (ethanol 50%) by cell	In house method (OE-7.0-224) based on EN 1186-5:2002





General chemical state laboratory, B' chemical division Athens

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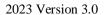
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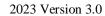
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Certfied services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Plastics	Determination of phthalate esters in PVC articles.	Method code 13 01 PTH 02 In house validated method, HPLC
	2. Identification and quantification of Di[2-ethylhexyl] phthalate in PVC materials	Method code 13 04 DEHP_1 In house validated method, GC-MS
Paper and paperboard	1. Determination of paper and paperboard ash on ignition at 900°C	Method code 13 02 04 ISO 2144: 2019 ISO 287:2017 ISO 638:2008
	2. Determination of pH of aqueous extracts- Part 1: Cold extraction	Method code 13 02 07 ISO 6588-1:2018





		ISO 186:2002
	3.Determination of paper and paperboard moisture content - Oven drying method at 105°C	Method code 13 02 08 ISO 287:2017, ISO 638:2008 ISO 187:1990, ISO 186:2002
Paper and paperboard	Determination of thickness of single sheets of paper and paper board	Method code 13 02 02 ELOT EN ISO 534: 2012 and ISO 187: 1990
	2. Determination of tensile strength of paper and paperboard	Method code 13 02 03 ISO 1924-2:2008 and ISO 187:1990
	3. Determination of smoothness (Bekk) of paper and paper board	Method code 13 02 05, ISO 5627:1995, ISO 187:1990
	4. Determination of roughness/smoothness (air leak method) of paper and paper board	Method code 13 02 06, ISO 8791-2: 2013 and ISO 187:1990
Materials and articles intended to come into contact with food.	1. Determination of Overall Migration from plastics indented to come in contact with food, into volatile food stimulants, by Gravimetry.	Method Code: OM-GRAV Documented in-house method, based on European standards: A. ΕΛΟΤ ΕΝ 1186-1/2002, by Gravimetry B. ΕΛΟΤ ΕΝ 1186-3/2002, by Gravimetry Γ. ΕΛΟΤ ΕΝ 1186-5/2002, by Gravimetry Δ. ΕΛΟΤ ΕΝ 1186-9/2002, by Gravimetry Ε. ΕΛΟΤ ΕΝ 1186-14/2002, by Gravimetry ΣΤ. ΕΛΟΤ ΕΝ 1186-15/2002, by Gravimetry
	2. Determination of Overall Migration from plastics, indented to come into contact with food, into food simulant D ₂ (vegetable oil)	Method Code: OM10 Documented in-house method based on European standards: ELOT EN 1186-2:2002 EΛΟΤ EN ISO 1186-8/2002 EΛΟΤ EN ISO 1186-13/2002





	by Gravimetry/Gas Chromatography
3. Determination of the concentration of	Method Code: EM1
DEHA and DEHP into plastics from PVC.	Documented in-house method
	based on J. of Chromatography
	(1987), 387 509-514,
	by Gas Chromatography
4. Determination of Specific Migration of	Method Code: EM2
DEHA and DEHP from plastics into	Documented in-house method
isooctane	based on J. of Chromatography
	(1997), <u>387</u> 509-514,
	by Gas Chromatography
5. Determination of Specific Migration of	Method Code: EM3
DEHA and DEHP from plastic films into	Documented in-house method
refined olive oil	based on J. of Chromatography
Termed onve on	(1987), <u>387</u> 509-514,
	by Gas Chromatography
6. Semi-quantitative estimation of specific	Method Code: EM4
migration from plastics.	Documented in-house method
	based on CEN TC194/SC1/WG2: N 118, D. van
	Battum and J.B.H. van Lierop,
	by Gas Chromatography.
7. Determination of Specific Migration of	Method Code: EM11
2,2 Bis(4-Hydroxyphenyl) propane in food	Documented in-house method
simulants.	based on BCR, MAT1-CT92-0006
	final report: Annex 1,
	by HPLC - UV-Vis <i>or</i> FLD
8. Determination of specific migration of	Method Code: EM15
formaldehyde and hexamethylenetetramine,	Documented in-house method based on CEN/TS
into food simulant B, acetic acid 3% (w/v),	13130-23:2005 Materials and articles in contact
by Spectrophotometry UV-VIS.	with foodstuffs- Plastics substances subject to
	limitation- Part 23: Determination of formaldehyde



	and hexamethylenetetramine in food simulants. Spectrophotometry UV-VIS
9. Determination of specific migration of melamine into food simulant B, acetic acid 3% (w/v), by HPLC-DAD.	Method Code: EM16 Documented in-house method based on CEN/TS 13130-27:2005 Materials and articles in contact with foodstuffs- Plastics substances subject to limitation- Part 27: Determination of 2,4,6- triamino-1,3,5-triazine in food simulants. Liquide Chromatography, HPLC-DAD