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Certified 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-diphenyl-p-phenylene oxide)- Tenax®)	In house method O.125 based on 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 DIBP: Diisobutyl Phthalate DBP: Dibutyl Phthalate BBP: Benzyl-butyl Phthalate DEHP: Bis (2-ethylhexyl) phthalate DCHP: Dicyclohexyl Phthalate DNOP: Di-n-octyl Phthalate	In house method O.644 based on EN 13130-1:2004 & Food Additives and Contaminants, 1999, Vol. 16, No. 5, 197-206

	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 & ISO 17294-2:2016 / ICP-MS</i>
	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 <i>O.650 based on EN 13130-2</i>
	16. Specific migration of Formaldehyde into aqueous simulants (A, B, C) and simulant D ₁ (50% ethanol)	<i>In house method O.322 based on EN 13130-23:2005</i>
Materials in contact with foodstuffs- Paper and board	1. Determination of Pentachlorophenol	In house method <i>O.635 based on ISO 15320:2011</i>
	2. Determination of Cadmium	In house method <i>O.523/ ICP-MS</i>
	3. Determination of Lead	In house method <i>O.523/ ICP-MS</i>
	4. Determination of Mercury	In house method <i>O.523/ ICP-MS</i>
	5. Determination of Formaldehyde in cold extract water	<i>In house method O.322 based on EN 645:1994 και EN 1541:2001</i>

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Certified 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

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Certified 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	<i>Laboratory method code: WP.M.043</i> 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	<i>Laboratory method code: WP.M.049</i> In house method based on APHA* 3500-Pb-B and on the article 25 of C.A. / Atomic Absorption - Flame

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Certified 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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Certified 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 EAOT EN ISO 1452.02:2011, (10 ÷ 90) °C

Fabrics, dyes and coatings, etc	1. 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 2. Determination of formaldehyde – Part 1: Free and hydrolyzed formaldehyde 3. Determination of certain aromatic amines derived from azo colorants (benzidine, 3,3'-dimethoxybenzidine)	EN ISO 14389: 2015 ELOT EN ISO 14184-1: 2012 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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Certified 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-p-phenylene oxide)- Tenax).	EN 1186-13
	5. Overall migration into substitutes of simulant D2 (Ethanol 95% and Iso-octane) 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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Certified services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Welds, metallic materials	Tensile test (Proof Strength not included)	EN ISO 6892-1: 2019 EN ISO 15614-1: 2017 & A1: 2019 EN ISO 4136: 2022 ASTM E8/E8M-21 EΛOT 1421-3: 2007 EN 10080: 2005 <u>EN ISO 15630-1: 2019</u> 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 EAOT 1421-3: 2007 EN 10080: 2006 EN ISO 15630-1: 2019
	Impact test according to the Charpy method	EN ISO 9016: 2022 EN ISO 148-1: 2016 ASME IX: 2021 / QW 170
Welds, metallic and cast materials	Macroscopic and microscopic examination	EN ISO 17639: 2022 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
Materials and articles	Overall migration of substances in food simulants (aqueous, ethanol	EN 1186-1: 2002 EN 1186-3: 2002

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

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Certified services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Plastic materials and articles in contact with foodstuffs	<ol style="list-style-type: none"> Determination of overall migration into aqueous food stimulants A, B, C and D1 by total immersion Determination of overall migration into fatty food stimulant D2 (ethanol 95⁰, isooctane), by total immersion Determination of overall migration into aqueous food stimulants A, B, C and D1 by article filling 	<p>ELOT EN 1186-1/2002 ELOT EN 1186-3/2002 by Gravimetry</p> <p>ELOT EN 1186-1/2002 ELOT EN 1186-14/2002 by Gravimetry</p> <p>ELOT EN 1186-1/2002 ELOT EN 1186-9/2002 by Gravimetry</p>

	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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Certified 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

	<p>10. Determination of specific migration of Phthalates in simulant D2 (Vegetable Oil):</p> <p>DBP: Dibutyl Phthalate BBP: Benzyl-butyl Phthalate DEHP: Bis (2-ethylhexyl) phthalate DEHA: Dicyclohexyl Phthalate</p>	<p>In house method E_XM089 based on EN1186:2022</p>
	<p>11. Semi-quantitative determination of specific migration of semi-volatile substances in simulant 95% Ethanol.</p>	<p>In house method E_XM090 based on EN1186:2022</p>
<p>Packaging Materials</p>	<p>Methods for assessing modifications to the flavour of foodstuffs due to packaging materials</p>	<p>ISO 13302:2003</p>

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Certified 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

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Certified services		
Tested Materials/Products	Tested Materials/Products	Applied methods/Techniques used
Plastics	1. 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 ^o 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	1. 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. EAOT EN 1186-1/2002, by Gravimetry B. EAOT EN 1186-3/2002, by Gravimetry Γ. EAOT EN 1186-5/2002, by Gravimetry Δ. EAOT EN 1186-9/2002, by Gravimetry E. EAOT EN 1186-14/2002, by Gravimetry ΣΤ. EAOT EN 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 EAOT EN ISO 1186-8/2002 EAOT EN ISO 1186-13/2002

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