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TEST REPORT No. 0565-2016

english translation of the original Italian test report

NPA 513/16	Date 30/06/2016	Page 1 of 11

Applicant	**COLIBRÍ System S.r.l.** Via Ripamonti, 44 – 20141 Milano – ITALY
Product	Folders in plastic material, different colour version (see pictures on page 2 and product list on page 6)

Required tests, reference standards and results (details reported on next pages)

Reg. "REACH" 1907/2006	➢ Content of cadmium (Cd) - Annexe XVII p.23 ➢ Content of lead (Pb) - Annexe XVII p.16-17 ➢ Content of phtalates - Annexe XVII p. 51-52 ➢ Release of benzene and toluene – Annexe XVII p. 5 and 48	(page 3, 4)	**PASS**
Dir. 2009/48/CE	➢ EN 71-2:2011+A1:2014 "flammability" ➢ EN 71-3:2013 "migration of certain elements"	(page 5) (page 6-11)	**PASS**

TOYS

Testing date	16/06/2016 ÷ 27/06/2016
Result	riportato in tabelle alle pagg. seguenti
The Operator	Per. Ind. Rosa Tridico R. Tridico
The Technical Manager	Dr. Ing. Sergio Tosi

This test report refers only to the tested product and it can be reproduced only in its full version.
Any objection to this test report will refer to the Italian version of the same

Order: letter of 14/06/16

Goods received on 14/06/16

Sampling performed by the Applicant






1907/2006 Regulation "REACH"

Cadmium and Lead determined by ICP analyses (our ref. No. 1066) after acid dissolution.
Benzene and Toluene determined by HSS/GC analyses

Analyzed component	Cadmium	Lead	Benzene	Toluene
Plastic – clear	< 0,005 %	-	-	-
Plastic – clear yellow	< 0,005 %	-	-	-
Plastic - red	< 0,005 %	-	-	-
Plastic – light green	< 0,005 %	-	-	-
Plastic – blue	< 0,005 %	-	-	-
Plastic - pink	< 0,005 %	-	-	-
Plastic - purple	< 0,005 %	-	-	-
Plastic - Black	< 0,005 %	-	-	-
Plastic - brown	< 0,005 %	-	-	-
Plastic - orange	< 0,005 %	-	-	-
Plastic - white	< 0,005 %	-	-	-
Plastic - fuchsia	< 0,005 %	-	-	-
Plastica – light blue	< 0,005 %	-	-	-
Plastica – dark green	< 0,005 %	-	-	-
Serigraphy: mix of colour black + light blue + white		< 0,010 %	< 0,005 %	< 0,005 %
REQUIREMENT	*not exceed 0,1 % by mass (Annexe XVII p.23)*	*Shall not be used as substances and a constituent of preparations intended for use as paints (Annexe XVII p.16-17)*	*Not permitted in toys or parts of toys as placed on the market where the concentration of benzene in the free state is in excess of 5 mg/kg of the weight of the toy or part of toy. (Annexe XVII p.5)*	*Shall not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,1 % by mass in adhesives and spray paints intended for sale to the general public. (All XVII p. 48)*

CONTENT OF PHTALATHES

Analyses performed according to standard ISO 8124-6:2014, in GC-MS. (our ref. no. 899)

	DHEP	DBP	BBP	DINP	DIDP	DNOP	RESULT
clear + clear yellow	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	PASS
yellow + red	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	PASS
light green + blue	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	PASS
pink + purple	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	PASS
black + brown	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	PASS
white + orange	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	PASS
Fucsia + light blue	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	PASS
Dark green	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	< 0,01 %	PASS

DHEP: bis (2-ethylhexyl) phthalate (CAS 117-81-7)

DBP: dibutyl phthalate (CAS 84-74-2)

BBP: benzyl butyl phthalate (CAS 85-68-7)

DINP: di-'isononyl' phthalate (CAS 28553-12-0 e CAS 68515-48-0)

DIDP: di-'isodecyl' phthalate (CAS 26761-40-0 e CAS 68515-49-1)

DNOP: di-n-octyl phthalate (CAS 117-84-0)

Requirement DHEP - DBP - BBP – annexe XVII p. 51

Shall not be used as substances or as constituents of preparations, at concentrations higher than 0,1 % by mass of the plasticised material, in toys and childcare articles

Requirement DINP - DIDP – DNOP – annexe XVII p. 52

Shall not be used as substances or as constituents of preparations, at concentrations higher than 0,1 % by mass of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

2009/48/EC Directive

Test performed only on the item "folder - clear".

EN 71-2:2011+A1:2014 Safety of toys – flammability		
Article	*Description*	*Result*
4.1	General	**PASS**
4.2	Toys to be worn on the head	Not Applicable
4.3	Toy disguise costumes and toys intended to be worn by a child in play	Not Applicable
4.4	Toys intended to be entered by a child	Not Applicable
4.5	Soft-filled toys with a piled or textile surface	Not Applicable

EN 71-3:2013
Safety of toys – migration of certain elements

1. Folder in PE – clear
2. Folder in PE – clear with thermic personalized print on black and light blue sheets
3. Folder PE – yellow clear
4. Cover maxi notebook in PE – yellow
5. Cover maxi notebook in PE red
6. Cover maxi notebook in PE – blue
7. Cover maxi notebook in PE – light green
8. Cover maxi notebook in PE – dark green
9. Cover maxi notebook in PE – light blue
10. Cover maxi notebook in PE – fucsia
11. Cover maxi notebook white with white stamp
12. Cover maxi notebook in PE – orange
13. Cover maxi notebook in PE – pink
14. Cover maxi notebook in PE – purple
15. Cover maxi notebook in PE – brown
16. Cover maxi notebook in PE – black

Parameter		LOD (mg/kg)	LOQ (mg/kg)	Limit Category II (EN 71-3)	Limit Category III (EN 71-3)
Aluminium	Al (mg/kg)	0,073	< LOD	1406	*70000*
Antimony	Sb (mg/kg)	0,014	< LOQ	11,3	*560*
Arsenic	As (mg/kg)	0,027	0,08	0,9	*47*
Barium	Ba (mg/kg)	0,027	0,93	3,75	*18750*
Boron	B (mg/kg)	0,039	< LOD	300	*15000*
Cadmium	Cd (mg/kg)	0,059	0,09	0,3	*17*
Chromium III	CrIII(mg/kg)	0,023	0,04	9,4	*460*
Chromium VI	CrVI(mg/kg)	0,0055	< LOD	0,0055	*0,2*
Cobalt	Co (mg/kg)	0,019	< LOD	2,6	*130*
Copper	Cu (mg/kg)	0,010	< LOD	156	*7700*
Lead	Pb (mg/kg)	0,061	1,39	3,4	*160*
Manganese	Mn (mg/kg)	0,050	< LOD	300	*15000*
Mercury	Hg (mg/kg)	0,010	< LOD	1,9	*94*
Nickel	Ni (mg/kg)	0,042	< LOD	18,8	*930*
Selenium	Se (mg/kg)	0,147	< LOQ	9,4	*460*
Strontium	Sr (mg/kg)	0,067	< LOD	1125	*56000*
Tin	Sn (mg/kg)	0,110	-	3750	*180000*
Organic Tin	(mg/kg)	0,05	< LOQ	0,2	*12*
Zinc	Zn (mg/kg)	0,097	0,197	938	*46000*

LOD: detection limits LOQ: quantification limits

Parameter		Sample 1 (cat III)	Sample 2 (cat. III)	Sample 3 (cat III)	Sample 4 (cat III)
Aluminium	Al (mg/kg)	8,02	25,22	3,70	3,01
Antimony	Sb (mg/kg)	< LOD	< LOD	< LOD	< LOD
Arsenic	As (mg/kg)	< LOQ	0,28	< LOD	< LOQ
Barium	Ba (mg/kg)	0,14	1,10	0,14	0,09
Boron	B (mg/kg)	3,12	9,94	1,77	3,06
Cadmium	Cd (mg/kg)	< LOD	< LOD	< LOD	< LOD
Chromium III	CrIII(mg/kg)	< LOD	0,16	0,06	< LOQ
Chromium VI	CrVI(mg/kg)	0,14	< LOD	0,08	< LOD
Cobalt	Co (mg/kg)	< LOD	< LOD	< LOD	< LOD
Copper	Cu (mg/kg)	< LOD	9,49	0,22	< LOD
Lead	Pb (mg/kg)	0,61	< LOD	< LOD	< LOD
Manganese	Mn (mg/kg)	2,71	1,59	0,07	< LOD
Mercury	Hg (mg/kg)	< LOD	< LOD	< LOD	< LOD
Nickel	Ni (mg/kg)	< LOD	< LOD	0,17	< LOD
Selenium	Se (mg/kg)	< LOQ	< LOD	< LOD	< LOD
Strontium	Sr (mg/kg)	< LOQ	0,81	0,17	0,28
Tin	Sn (mg/kg)	3,30	< LOD	< LOD	< LOD
Organic Tin	(mg/kg)	-	-	-	-
Zinc	Zn (mg/kg)	1,93	23,27	0,45	0,72

Parameter		Sample 5 (cat III)	Sample 6 (cat. III)	Sample 7 (cat III)	Sample 8 (cat III)
Aluminium	Al (mg/kg)	2,35	1,43	2,70	1,23
Antimony	Sb (mg/kg)	< LOD	< LOD	< LOD	< LOD
Arsenic	As (mg/kg)	< LOD	0,08	< LOQ	< LOQD
Barium	Ba (mg/kg)	0,13	0,11	0,18	0,09
Boron	B (mg/kg)	2,22	1,81	3,38	1,79
Cadmium	Cd (mg/kg)	< LOD	< LOD	< LOD	< LOD
Chromium III	CrIII(mg/kg)	0,46	0,26	0,35	< LOD
Chromium VI	CrVI(mg/kg)	0,04	0,03	< LOD	< LOD
Cobalt	Co (mg/kg)	< LOD	< LOD	< LOD	< LOD
Copper	Cu (mg/kg)	0,09	0,16	0,12	0,13
Lead	Pb (mg/kg)	0,15	0,58	< LOD	0,43
Manganese	Mn (mg/kg)	< LOD	1,17	1,96	< LOD
Mercury	Hg (mg/kg)	< LOD	< LOD	< LOD	< LOD
Nickel	Ni (mg/kg)	0,11	< LOD	< LOD	< LOD
Selenium	Se (mg/kg)	< LOD	< LOQ	< LOD	0,34
Strontium	Sr (mg/kg)	< LOD	< LOQ	< LOQ	< LOQ
Tin	Sn (mg/kg)	< LOD	< LOD	< LOD	0,23
Organic Tin	(mg/kg)	-	-	-	-
Zinc	Zn (mg/kg)	0,32	0,34	0,41	0,61

Parameter		Sample 9 (cat III)	Sample 10 (cat. III)	Sample 11 (cat III)	Sample 12 (cat III)
Aluminium	Al (mg/kg)	1,69	8,84	2,09	1,66
Antimony	Sb (mg/kg)	< LOD	< LOD	< LOD	< LOD
Arsenic	As (mg/kg)	0,06	< LOD	< LOQ	< LOD
Barium	Ba (mg/kg)	0,06	0,15	< LOQ	0,21
Boron	B (mg/kg)	1,18	2,70	3,75	2,18
Cadmium	Cd (mg/kg)	< LOD	< LOD	< LOD	< LOD
Chromium III	CrIII(mg/kg)	0,07	1,09	0,16	< LOQ
Chromium VI	CrVI(mg/kg)	< LOD	0,03	0,03	< LOD
Cobalt	Co (mg/kg)	< LOD	< LOD	< LOD	< LOD
Copper	Cu (mg/kg)	0,13	< LOD	< LOD	0,11
Lead	Pb (mg/kg)	0,17	< LOD	< LOD	< LOQ
Manganese	Mn (mg/kg)	0,37	0,30	0,10	< LOD
Mercury	Hg (mg/kg)	< LOD	< LOD	< LOD	< LOD
Nickel	Ni (mg/kg)	< LOQ	< LOD	< LOD	0,09
Selenium	Se (mg/kg)	< LOD	< LOD	< LOD	< LOD
Strontium	Sr (mg/kg)	0,21	< LOQ	< LOD	< LOD
Tin	Sn (mg/kg)	< LOD	< LOD	< LOD	< LOD
Organic Tin	(mg/kg)	-	-	-	-
Zinc	Zn (mg/kg)	0,17	0,66	0,50	0,39

Parameter		Sample 13 (cat III)	Sample 14 (cat. III)	Sample 15 (cat III)	Sample 16 (cat III)
Aluminium	Al (mg/kg)	1,95	2,60	2,41	11,18
Antimony	Sb (mg/kg)	< LOD	< LOD	< LOD	< LOD
Arsenic	As (mg/kg)	0,07	0,10	< LOD	< LOQ
Barium	Ba (mg/kg)	0,08	0,12	0,16	1,01
Boron	B (mg/kg)	3,50	3,64	2,69	2,48
Cadmium	Cd (mg/kg)	< LOD	< LOD	< LOD	< LOD
Chromium III	CrIII(mg/kg)	0,05	0,06	0,04	1,00
Chromium VI	CrVI(mg/kg)	< LOD	0,10	0,06	0,03
Cobalt	Co (mg/kg)	< LOD	< LOD	< LOD	< LOD
Copper	Cu (mg/kg)	0,05	0,16	0,23	< LOD
Lead	Pb (mg/kg)	< LOD	< LOD	0,20	0,44
Manganese	Mn (mg/kg)	0,11	< LOQ	< LOQ	15,02
Mercury	Hg (mg/kg)	< LOD	< LOD	< LOD	< LOD
Nickel	Ni (mg/kg)	< LOD	< LOQ	< LOD	< LOD
Selenium	Se (mg/kg)	< LOD	< LOD	< LOD	< LOD
Strontium	Sr (mg/kg)	0,18	< LOD	< LOQ	1,89
Tin	Sn (mg/kg)	< LOD	6,09	2,07	< LOD
Organic Tin	(mg/kg)	-	-	-	-
Zinc	Zn (mg/kg)	0,39	0,71	0,85	1,17