



TEST REPORT NB1417

**Name of client
address:**

PPG Deco Czech a.s.
Brasy 223
338 24 Brasy, Czech Republic.

Date of application:

26/06/2013

Subject of application:

BALAKRYL VENKOVNÍ LAK LESK POLOMAT
conformity test according to EN 71-3, EN71-9 concerning
2009/48/EC Safety of toys directive

Description of Sample:

BALAKRYL VENKOVNÍ LAK LESK POLOMAT V 1604
exteriérový lak na drevo / bezbarvy
sample: 63

The sample was submitted by the client.

Testing period:

26/06/2013 - 21/07/2013

Documentation:

safety data sheet

Test method:

EN 71-3:2013, EN 71-9:2005 + A1:2007,
KERMI HPLC-16, EN 1122:2001, EPA Method 8061 A



ÉMI-TÜV

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VIZSGÁLÓ
NAT-1-1351/2012



TEST RESULTS

Apellation:	BALAKRYL VENKOVNÍ LAK LESK POLOMAT exteriéový lak na drevo / bezbarvy
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EN 71-3:2013 Safety of toys / Migration of certain elements

TEST PARAMETER	TEST RESULT mg/kg	LIMIT VALUE mg/kg in scraped-off toy material
Sample	63	
Aluminum (Al)	0,7	70000
Antimony (Sb)	< 0,5	560
Arsenic (As)	< 0,025	47
Barium (Ba)	< 0,05	18750
Boron (B)	< 0,15	15000
Cadmium (Cd)	< 0,25	23
Chromium (Cr III)	< 0,025	460
Chromium, Cr (VI)	< 0,025	0.2
Cobalt (Co)	< 0,025	130
Copper (Cu)	0,0	7700
Lead (Pb)	0,1	160
Manganese (Mn)	0,0	15000
Mercury (Hg)	< 0,025	94
Nickel (Ni)	< 0,05	930
Selenium (Se)	< 0,05	460
Strontium (Sr)	0,1	56000
Tin (Sn)	0,2	180000
Organic tin*	< 1	12
Zinc (Zn)	< 0,25	46000

*Organic tin compounds: MBT, DBT, TBT, TTBT, MOT, DOT, TPhT, TCyT


EN 71-9:2005 Safety of toys Organic chemical compounds
2D Monomers (migration)

TEST PARAMETER	TEST RESULT mg/l	LIMIT VALUE mg/l
Sample	63	
Acrylamide/79-06-1	n.d.	0.02
Bisphenol A/ 80-05-7	n.d.	0.1
Formaldehyde/ 50-00-0	n.d.	2.5
Phenol /108-95-2	n.d.	15
Styrene/100-42-5	n.d.	0.75

Detection limit: acrylamide: 0.01 mg/l, Bisphenol A: 0.01 mg/l, phenol: 0.1 mg/l, styrene: 0.001 mg/l
 n.d.:not detected

2H Preservative (migration)

TEST PARAMETER	TEST RESULT	LIMIT VALUE	TEST METHOD
Phenol [mg/l]	n.d.	15 mg/l	EN 71-9 EN 71-10 EN 71-11
Formaldehyde	0,5	500 mg/kg	
MIT [mg/kg]	n.d.	10 mg/kg	
CIT [mg/kg]	n.d.	10 mg/kg	
BIT [mg/kg]	n.d.	15 mg/kg	

Detection limit: phenol: 0.1 mg/l , MIT: 1 mg/kg, CIT: 1 mg/kg, BIT: 5 mg/kg
 n.d.: not detected


2E Migration of solvents

TEST PARAMETERS	TEST RESULT mg/l	LIMIT VALUE mg/l
Sample	63	
Trichloroethylene (79-01-6)	nd.	0,02
Dichloromethane (75-09-2)	nd.	0,06
2-Methoxyethyl acetate (110-49-6)	nd.	0,5
2-Ethoxyethanol (110-80-5)	nd.	0,5
2-Ethoxyethyl acetate (111-15-9)	nd.	0,5
Bis(2-methoxyethyl) ether (111-96-6)	nd.	0,5
2-Methoxypropyl acetate (70657-70-4)	nd.	0,5
Methanol (67-56-1)	nd.	5
Nitrobenzene (98-95-3)	nd.	0,02
Cyclohexanone (108-88-3)	nd.	46
3,5,5-Trimethyl-2-cyclohexene-1-one (78-59-1)	nd.	3
Toluene (108-88-3)	nd.	2
Ethylbenzene (100-41-4)	nd.	1
Xylene (all isomers)(various No.)	nd.	2 (total)

Detection limit: Trichlorethylene, Dichlormethane: 0,005 mg/l, Toluene, Ethylbenzene, Xylenes: 0,001 mg/l
 Methanol: 1,0 mg/l, Nitrobenzene, Cyclohexanone, 3,5,5-trimethyl-2-cyclohexene-1-on 0.1 mg/l
 2-metoxietil acetate, 2-etoxiethanol, 2-etoxietil acetát, Bis(2-metoxietil) éter 1-metoxiethyl-2-propilacetát 0,10 mg/l

n.d.: not detected


Determination of plasticizers according to EN 12586:2007

TEST PARAMETER	TEST RESULT % m/m	LIMIT VALUE % m/m
Sample/CAS no.	63	
Di-methyl phthalate / 131-11-3	n.d.	---
Di-ethyl phthalate / 84-66-2	n.d.	---
Di-propyl phthalate / 131-16-8	n.d.	---
Di-buthyl phthalate / 84-74-2	n.d.	0.01
Di-iso-buthyl phthalate / 84-69-5	n.d.	0.01
Benzyl buthyl phthalate BBP /85-68-7	n.d.	0.1
Di-n-octyl phthalate / 117-84-0	n.d.	0.1
Di-iso-octyl phthalate / 27554-26-3	n.d.	---
Di-nonyl phthalate / 84-76-4	n.d.	---
Di-iso-nonyl phthalate / 68515-48-0	n.d.	0.1
Di-decyl phthalate / 84-77-5	n.d.	---
Di-iso-decyl phthalate / 26761-40-0	n.d.	0.1
Di-un-decyl phthalate / 3648-20-2	n.d.	---
Bis(2-ethylhexyl) phthalate / 117-81-7	n.d.	0.01
Di-cyclohexyl phthalate / 84-61-7	n.d.	---
Bis(2-methoxyethyl) phthalate / 117-82-8	n.d.	---
Di-allyl phthalate / 131-17-9	n.d.	---

n.d.:not detected, detection limit: 0.001 % m/m

ÉMI-TÜV
KERMI Dept.**Lead cadmium content:** EN 1122:2001 ICP-MS

TEST PARAMETER	TEST RESULT mg/kg \pm 10%	LIMIT VALUE mg/kg
Sample	63	
Kadmium (Cd)	< 0,1	100
Ólom (Pb)	< 0,25	1000

detection limit: Cd 0,1, Pb 0,25 mg/kg

Gabriella Süvegesné Váradi
Head of DepartmentGyörgy Magasházy
technical expert**Warning:**

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