



ÉMI-TÜV

TEST REPORT

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ÉMI-TÜV SÜD Kft.
KERMI Department
Budapest, 24/05/2014
test report No.: R-507258
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Name of the client: Jámbor Rudolf individual entrepreneur
Address: 5000. Orosháza, Kossuth Lajos u 34
Date of application: 12.05.2014
Subject of application: Testing of filter frame of swimming pool's water
Receipt date of test samples: 12.05.2014.

Name and photo of test samples: Filter frame of swimming pool's water (600x440x10 mm)
Material: PP and HIPS



Documentation: MSDS and technical sheet
Testing period: 12.05.2014. - 23.05.2014

Remark: The result relates only to the items tested

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Tax nr: 10687105-2-13
Bank: UniCredit Bank Hungary Zrt.
10918001-00000068-72970003

Managing Director
Gábor Madaras Dr.

Phone: +36/1 210 9570
Fax: +36/1 314 3820

www.emi-tuv.hu
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ÉMI-TÜV SÜD Kft.
TÜV SÜD Group
KERMI Department

H-1043 Budapest
Dugonics u. 11.



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Test results:

1. Global migration test

Test parameter	Test results (mg/dm ²) ± 5 rel. %	Test Method
Global migration	White plastic filter frame	
Deionised water, 20°C, 240 hours, 1 cycle 1. PP 2. HIPS	16,2 42,6	MSZ EN 1186-9:2002

Detection limit: 1 mg/dm²

3. Migration of certain elements :

Test method: MSZ EN 1186-9:2002, MSZ EN ISO 17294-2:2005;
EPA 6020A/2007 , ICP-MS

Test parameter	Test results (mg/kg) ± 10 rel. %	Requirement 1935/2004/EC 10/2011/EC
Sample	White plastic filter frame, mix	
Barium (Ba)	<0,003	<1 mg/kg
Cobalt (Co)	<0,0005	<0,05 mg/kg
Copper (Cu)	0,02	<5 mg/kg
Iron(Fe)	0,04	<48 mg/kg
Manganese (Mn)	<0,003	<0,6 mg/kg
Lithium (Li)	<0,001	<0,6 mg/kg
Zinc (Zn)	<0,005	<25 mg/kg

detection limit: Ba, Mn: <0,003 mg/kg; Fe, Zn: <0,005 mg/kg; Co, Cu: <0,0005 mg/kg; Li: <0,001 mg/kg



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4. Phthalates test:

Test method: MSZ EN 15777:2009, GC-MS

Tested parameters	CAS No.	Test results (w/w)% $\pm$ 5 rel.%	Requirement 1907/2006/EU Annex XVII. 51, 52 (w/w)%
		White plastic filter frame mix	
Dimethyl phthalate DMP	131-11-3	n.d.	--
Diethyl phthalate DEP	84-66-2	n.d.	--
Dipropyl phthalate DPrP	131-16-8	n.d.	--
Di-n-butyl phthalate DBP	84-74-2	n.d.	0,1
Diisobutyl phthalate DIBP	84-69-5	n.d.	--
Benzyl butyl phthalate BBP	85-68-7	n.d.	0,1
Di-n-octyl phthalate DNOP	117-84-0	n.d.	0,1
Diisooctyl phthalate DIOP	27554-26-3	n.d.	--
Dinonyl phthalate DNP	84-76-4	n.d.	--
Diisononyl phthalate DINP	68515-48-0	n.d.	0,1
Didecyl phthalate DDP	84-77-5	n.d.	--
Diisodecyl phthalate DIDP	26761-40-0	n.d.	0,1
Diundecyl phthalate DUP	3648-20-2	n.d.	--
Bis(2-ethylhexyl) phthalate DEHP	117-81-7	0,01	0,1
Dicyclohexyl phthalate DCHP	84-61-7	n.d.	--
Bis(2-methoxyethyl) phthalate DMoEP	117-82-8	n.d.	--
Diallyl phthalate DAP	131-17-9	n.d.	--
Diphenyl phthalate DPhP	84-62-8	n.d.	--

n.d.: not detectable; detection limit: 0,01 w/w % : DBP, BBP, DEHP, DMP, DEP, DNOP, DPrP, DIBP, DCHP, DMoEP, DNNP, DDP, DUP, DAP, DPhP ; 0,05 w/w%: DINP, DIDP, DIOP

5. Cadmium, lead content

Method: EN 1122:2001

Test parameter	Test results (mg/kg) $\pm$ 10 rel.%	Requirement (mg/kg)
Total Cadmium content, (Cd)	< 0,0005	< 100
Total lead content, (Pb)	0,002	< 1000

detection limit: 0,02 mg/kg

The sample was destroyed during the test.

Gabriella Süvegesné Váradi
Gabriella Süvegesné Váradi
Head of department



György Magasházy
György Magasházy
Expert

CERTIFICATE

Number: C - 507258-

Date: 10/06/2014, Budapest

**Type and identification
data of product:**
mm

Swimming pools, pool water filter frame 600x440x10

Material: PP and HIPS

Produced by:

Jámbor Rudolf individual contractor

Client:

Jámbor Rudolf individual contractor
5000. Orosháza, Kossuth Lajos u 34

On the basis of the executed examination (R-507258) and the documentations submitted by the client, ÉMI-TÜV SÜD Kft. certify that the sample

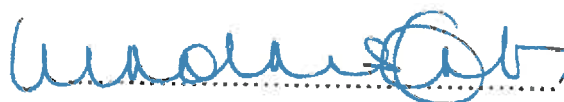
complies

with the below listed legal rules, relevant stipulations, standards and/or attested quality.

Applied directives, regulations, standards:

1907/2006/EU REACH Annex XVII 23; 51-52

Valid until: 3 years from the issue, or the change in product, production, production technology and the concerning regulations



Dr. Madaras Gábor
managing director