L.V.H.T.
Lehr- und Versuchsgesellschaft für innovative Hygiene-Technik mbH
Institut für angewandte Bau- und Bäderhygiene
Am Zehnthof 191a
45307 Essen
Tel. 02 01 / 59 20 35
02 01 / 59 20 36
Fax 02 01 / 59 10 61
verwaltung@lvht.de
www.lvht.de

Test Report

in accordance with the Recommendation of the BGA (Federal Health Office) for Plastic Materials for Use in Baths and Swimming Facilities (German Abbreviation: KSW)

for

RENOLIT IBÉRICA, S.A.
Ctra. Del Montnegre, s/n
08470 Sant Celoni / Spain
Job No. KSW 6111 / 08.2009

Material tested:	Alkorplan 3000 (Mosaik)
Date of receipt:	April 2009
Size of sample:	200 mm x 200 mm – homogeneous – cut to size
Area of use:	Swimming and bathing pool water
Material type:	PVC-based (swimming pool sheeting)
Type of test:	Migration behaviour of material exposed to chlorine

Assessment of results:

For the entire duration of the tests (nine days), the results obtained with the material tested were below the statutory limits (organic C, chlorine consumption) or recommended values (additional material properties: chloramines, trihalomethanes, oxidation capacity). With respect to its hygiene and technical properties, the material tested must therefore be assessed as suitable for use in swimming and bathing pools (< 2 mg/l free Cl_2, 40 ± 1.0 ^{0}C).

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to: RENOLIT IBÈRICA, S.A.
Ctra. Del Montnegre, s/n, 08470 Sant Celoni / Spain

Test conditions: for swimming and bathing water use

Migration test: yes

Chlorine consumption test: yes

Temperature (C°): 40 ± 1,0

Initial Cl_2 concentration (mg/l): 2 ± 0,1

Pre-treatment: exposure to chlorine-free water from the central drinking water system for 72 hours

Contact time: 9 days for one test

	Test water			**Change compared with water at start of test**
Parameter	***Days 1–3***	***Days 4–6***	***Days 7–9***	***after day 9***
Colour	colourless	colourless	colourless	none
Turbidity	none	none	none	none
Odour	none	none	none	none
Foaming tendency	none	none	none	none
	Material surface values relevant to KSW M = mg/m² x day			**Maximum limit M = mg/m² x day**
Org. C	5,56	4,57	4,12	≤10
Chlorine consumption (free chlorine)	3,35	3,03	2,98	≤ 8
	Additional material values M = mg/m² x day			**Recommended limit M = mg/m² x day**
Chloramines	<0.01	< 0.01	< 0.1	≤ 2
THM concentration	< 1	< 1	<1	≤ 15
Oxidation capacity	1,97	1,81	1,66	≤14

THM = trihalomethanes (calculated as trichloromethane)

L. V. H. T. GmbH

(Dipl.-Ing. M. Funcke)

Institut für angewandte Bau- und Bäderhygiene lvht EWA, DVGW, DGfdB Member

45307 Essen, 26 August 2009 / lo