

Consumo

LGAI TECHNOLOGICAL CENTER, S.A.
Campus UAB
C/ta. de Acceso a la Universidad de Medicina, s/n
08193 Bellaterra (Barcelona)
Tlf.: 93 5672000 Fax: 93 5672001

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REPORT Nº: 491/11/10063

RECORD Nº: 11754

TEST REPORT ISSUED BY LGAI TECHNOLOGICAL CENTER, S.A.

CLIENT IDENTIFICATION DATA

NAME: DRIZORO, S.A.

LOCALITY: TORREJÓN DE ARDOZ

CENTRE:

PROVINCE: 28850 MADRID

ADDRESS: CL PRIMAVERA, 50-52

COUNTRY: SPAIN

TEST SAMPLE IDENTIFICATION DATA

PRODUCT: MAXFLEX 100 W

DELIVERY DATE:

SAMPLING DATE:

PROVIDER:

EXPIRY DATE:

RECEPTION DATE: 13/12/11

BRANCH:

PRODUCT T.M.:

BAR CODE:

BATCH:

S/REF:

SECTION:

CATEGORY:

OBSERVATIONS: Sent by client

PHYSICAL AND CHEMICAL TEST LAB

Start: 13/12/11

End: 19/12/11

Materials characteristics

	Parameter	Results	Regulation Normative
1	Migration of materials in contact with drinking water	UNE EN 12873	
2	Reaction with 20 ppm of chlorine	Performed	Without change
3	Colour (mg/Pt/Co)	<1,0	<=15
4	Odour: Dilution index		
	First migration	1	<=3
5	Flavour: Dilution index		
	First migration	1	<=3
6	Turbidity		
	First migration (UNF)	1,4	<=5
7	Ammonium		
	First migration (mg/l)	0,2	<=0,5
8	Cyanides (CN) (µg/l)	<5,0	<=50
9	Combined Residual Chlorine (mg/l)	0,1	<=2
10	Residual free chlorine (mg/l)	0,1	<=1
11	Conductivity (µS/cm)	70,0	<=2.500
12	pH		
	First migration (upH)	8,0	>=6,5 <=9,5
13	Nitrites (mg/l)	<0,05	<=0,5
14	Sodium (Na) (mg/l)	16,1	<=200
15	Chloride (mg/l)	18,8	<=250
16	Fluoride (F) (mg/l)	<0,1	<=1,5

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17	Nitrates	(mg/l)	<0,5	<=50
18	Sulphates	(mg/l)	<1,0	<=250
19	Aluminium (Al)			
	First migration	(µg/l)	<11,0	<=200
20	Antimony (Sb)	(µg/l)	<2,0	<=5
21	Arsenic (As)	(µg/l)	<2,0	<=10
22	Boron (B)	(mg/l)	0,02	<=1
23	Cadmium (Cd)	(µg/l)	<1,0	<=5
24	Copper (Cu)	(mg/l)	0,004	<=2
25	Chromium (Cr)	(µg/l)	<2,0	<=50
26	Iron (Fe)			
	First migration	(µg/l)	<10,0	<=200
27	Manganese (Mn)	(µg/l)	<2,0	<=50
28	Mercury (Hg)	(µg/l)	<0,2	<=1
29	Nickel (Ni)	(µg/l)	<2,0	<=20
30	Lead (Pb)			
	First migration	(µg/l)	<2,0	<=25
31	Selenium (Se)	(µg/l)	<2,0	<=10
32	Volatile organic compounds			
	1,2 Dichloroethane	(µg/l)	<0,5	<=3
	Trichloroethane + Tetrachloroethene	(µg/l)	<1,0	<=10
33	Trihalomethanes			
	First migration	(µg/l)	9,2	<=10
34	Benzene			
	First migration	(µg/l)	<0,5	<=1
35	Polycyclic Aromatic Hydrocarbons			
	Benzo-a-Pyrene	(µg/l)	<0,005	<0,01
	Total of Polycyclic Aromatic Hydrocarbons	(µg/l)	<0,1	<=0,1
36	Plaguicides			
	Aldrin	(µg/l)	<0,03	<=0,03
	Dieldrin	(µg/l)	<0,03	<=0,03
	Heptachlor	(µg/l)	<0,03	<=0,03
	Heptachlor-epoxy	(µg/l)	<0,03	<=0,03
	Total Plaguicides	(µg/l)	<0,03	<=0,5
37	Acrylamide			
	First migration	(µg/l)	<0,05	<=0,1

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PHYSICAL AND CHEMICAL TEST LAB

Start: 13/12/11 End: 19/12/11

38	Epichlorohydrin (µg/l)	<0,1	<0,1
40	Management of samples and pre-samples prior to test	Done	

Product characteristics

	Parameter	Results	Regulation Normative
39	Vinyl chloride (µg/l)	<0,5	<=0,5

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CHEMICAL DEPARTMENT

Polymer migration:

- Extraction method: chlorinated water at 1 ppm of chloride.
- Migration temperature: 40° C.
- Contac time: Previous washes to the sample are carried out according to EN-12873 standard, using chlorinated water at 50 ppm of chloride
Subsequently 3 migration cycles of 72 hours are carried out, obtaining 3 test samples.
Parameters for the first 72 hours cycle are analyzed and, only are repeated in the second and third cycle when the parameters are out of range of the values for the RD140/2003 in the first cycle.
- Sample volume: 1 litter for each 72 hours cycle.
- Contact surface: 500 cm²
- Surface / Volume ratio: 500 cm²/l.

CONCLUSION

The material accomplishes (*), according to the parameters tested, with the requirements established in the RD 140/2003 Spanish Regulation.

(*) Whenever epichlorohydrine has not been detected, it is remarkable that the detection limit is higher than indicated in the RD 140/2003 Spanish Regulation.

According to the Annex I of the RD 140/2003, the maximum limit established for the epichlorohydrine is 0,1 µg/l. The technique used for the determination of this parameter is the mass gas chromatography – mass spectrometry that technique with the best optimization possible, does not allow achieving a detection limit below to 1 µg/l.

No chemical reaction observed in the product with 20 ppm of chloride, so the product accomplish, according to this parameter, with the requirements of the RD 140/2003 Spanish Regulation.

Parameters determination, with the exception of migration test and the reaction with 20 ppm of chloride has been carried out in an external laboratory with expedient numbers 945305..

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Q 1 EN 12873
Q 3 Internal method
Q 5 Internal method
Q 7 Internal method
Q 9 Internal method
Q 11 Internal method
Q 13 Internal method
Q 15 Internal method
Q 17 Internal method
Q 19 Internal method
Q 21 Internal method
Q 23 Internal method
Q 25 Internal method
Q 27 Internal method
Q 29 Internal method
Q 31 Internal method
Q 33 Internal method
Q 35 Internal method
Q 37 Internal method
Q 39 Internal method

Methodology applied

Q 2 Internal method
Q 4 Internal method
Q 6 Internal method
Q 8 Internal method
Q 10 Internal method
Q 12 Internal method
Q 14 Internal method
Q 16 Internal method
Q 18 Internal method
Q 20 Internal method
Q 22 Internal method
Q 24 Internal method
Q 26 Internal method
Q 28 Internal method
Q 30 Internal method
Q 32 Internal method
Q 33 Internal method
Q 36 Internal method
Q 38 Internal method
Q 40 Internal method

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Inorganic Chemical Department Manager
Isabel Garmendia Arnau
Bellaterra, Decembar, 19st 2011

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