

TEST REPORT**218488 / 1**Date received: 29/07/16
Date of test: 30/08/16
Date of issue: 27/10/16

Sample name: Pannello di particelle nobilitato melaminico


CLEAF S.P.A.
VIA S. AMBROGIO, 18
20846 MACHERIO (MB)
ITALIA**Volatile organic compounds from building and finishing products - UNI EN ISO
16000-9:2006 + ISO 16000-6:2011****SAMPLE DESCRIPTION**

Type of product	Coated and edged boards
Sampling performed by	Client
Date of production	Unknown
Date and time of unpacking	30 Aug 2016 h. 08,30
Sample section process	Sample tested as delivered

EXPERIMENTAL CONDITIONS

Chamber n.	681	Volume	1,0 m ³
Temperature	23±2°C	Relative humidity	50±5%
Air change rate	0,5/h	Air velocity	0,2±0,1 m/s
Test specimen area	1,0 m ²	Loading ratio	1,0 m ² /m ³
Adsorption material	Tenax TA		
1st Air sampling	02 Sep 2016 h. 08,30	Air sampling duration	45 min
Air sampling flow	0,080 l/min	Air volume	3,60 litres
2nd Air sampling	27 Sep 2016	Air sampling duration	45 min
Air sampling flow	0,080 l/min	Air volume	3,60 litres
Thermal desorber	Perkin Elmer Turbomatrix 16		
Gaschromatograph	Perkin Elmer Clarus 500 GC		
Mass spectrometer	Perkin Elmer Clarus 500 MS		

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Managing Director
Dr. Andrea Giavon

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COMPANY CLEAF spa - Macherio (MB)

DATE OF TEST 30 Aug 2016

VOLATILE ORGANIC COMPOUNDS	C.A.S. NUMBER	CONCENTRATION ($\mu\text{g}/\text{m}^3$)	
		after 72 hours #	after 28 days #
Formaldehyde *	50-00-0	9	5
Acetaldehyde *	75-07-0	15	9
Toluene	108-88-3	< 2	< 2
Tetrachloroethylene	127-18-4	< 2	< 2
Xylenes isomeri	1330-20-7	< 2	< 2
1,2,4 Trimethylbenzene	95-63-6	< 2	< 2
1,4 Dichlorobenzene	106-46-7	< 2	< 2
Ethylbenzene	100-41-4	< 2	< 2
2 Butoxyethanol	111-76-2	< 2	< 2
Styrene	100-42-5	< 2	< 2
Acetone	67-64-1	2	< 2
Alfa pinene	80-56-8	45	42
Beta pinene	127-91-3	8	7
Other terpenes §	---	3	2
Dodecylacrylate §	2156-97-0	2	< 2
1,6 Hexandiol diacrylate §	13048-33-4	2	< 2
Benzophenone §	119-61-9	3	< 2
Acetic acid	64-19-7	29	21
Total V. O. C.		109	81

NOTES: # duplicate test

* determined with DNPH - HPLC method and not included in the ACCREDIA accreditation.

§ quantified as toluene

Quantification: Internal standard - Calibration curve at 5 concentrations (linear regression)

LOD (Limit of Detection) = $1 \mu\text{g}/\text{m}^3$

LOQ (Limit of Quantification) = $2 \mu\text{g}/\text{m}^3$

Efficiency of adsorption for Toluene and n Dodecane > 95%

Quality of environmental variables: Limits of temperature and humidity not exceeded significantly.



centro ricerche-sviluppo e laboratori prove
settori legno-arredo, ambiente e alimenti

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TEST REPORT

218488 / 2

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20846 MACHERIO (MB)
ITALIA

Odours emission RAL-GZ 430

TEST CONDITIONS

AIR TEMPERATURE	23±1°C
AIR HUMIDITY	50±5 % R.H.
AIR EXCHANGE	0,5±0,05 m³/h
CHAMBER VOLUME	1,0 m³
SAMPLE SURFACE	1,0 m²
LOADING FACTOR	1,0 m²/m³/h
DATE OF START OF TEST	30 Aug 2016
DATE OF VALUTATION	13 Sep 2016

RESULTS

EVALUATOR	AGE	GENDER	VALUTATION
1	55	M	1
2	56	M	1
3	25	F	2
4	39	M	2
5	39	F	1
6	38	M	2
7	30	M	2

AVERAGE **1,6** **FAINT ODOUR**

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