

TEST REPORT

194887 / 1

Date received: 06/03/15
Date of test: 16/03/15
Date of issue: 24/04/15
Sample name: Laminam 3 + (C250)

LAMINAM S.P.A.
VIA GHIAROLA NUOVA, 258
41042 FIORANO MODENESE (MO)
ITALIA

Volatile organic compounds from building and finishing products - UNI EN ISO 16000-9:2006 + ISO 16000-6:2011

SAMPLE DESCRIPTION

Type of product	Composite Panels.
Sampling performed by	Client
Date of production	Unknown
Date and time of unpacking	16 Mar 2015 h. 11,15
Sample section process	Sample tested as delivered

EXPERIMENTAL CONDITIONS

Chamber n.	912	Volume	0,25 m ³
Temperature	23±2°C	Relative humidity	50±5%
Air change rate	1,0 /h	Air velocity	0,2±0,1 m/s
Test specimen area	0,25 m ²	Loading ratio	1,0 m ² /m ³
Adsorption material	Tenax TA		
1st Air sampling	19 Mar 2015 h. 12,07	Air sampling duration	45 min
Air sampling flow	0,073 l/min	Air volume	3,28 litres
2nd Air sampling	13 Apr 2015	Air sampling duration	45 min
Air sampling flow	0,073 l/min	Air volume	3,28 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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LAB N° 0027
Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC

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Sample name: Laminam 3 + (C250)

COMPANY		LAMINAM spa - Fiorano Modenese (MO)	
DATE OF TEST		16 Mar 2015	
VOLATILE ORGANIC COMPOUNDS	C.A.S. NUMBER	CONCENTRATION ($\mu\text{g}/\text{m}^3$)	
		after 72 hours #	after 28 days #
Formaldehyde *	50-00-0	n. d.	< 2
Acetaldehyde *	75-07-0	n. d.	< 2
Toluene	108-88-3	16	3
Tetrachloroethylene	127-18-4	< 2	< 2
Xylenes isomeri	1330-20-7	5	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
Hexane isomers §	----	4	< 2
n Butyl acetate	123-86-4	2	< 2
1 Methoxy 2 propyl acetate	108-65-6	< 2	< 2
Methoxybutyl acetate §	4435-53-4	2	< 2
Acetic acid	64-19-7	53	11
Total V. O. C.		82	16

NOTES: # duplicate test n. d. = not determined after 72 hours
* 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 (temperature and humidity): limits not exceeded significantly.

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