

VOC EMISSION TEST REPORT



P05.0.DOC.00077.01

STUDY REPORT

*These results concern only the samples tested in the laboratory which are defined here after.
The samples will be kept in our premises during 2 months from the date below mentioned.*

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77184 EMERAINVILLE
FRANCE

May 24th 2012

VOC EMISSION TEST REPORT

Client : Mr HERVE THIBAUT
SOLAR SCREEN FRANCE S.A.S.

Reference of client : Tests d'émission pour règlementation étiquetage.

Reference of ATS : 2012/29088/1 – DSP 324775

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Edition including 5 pages.

VOC Emissions Test report

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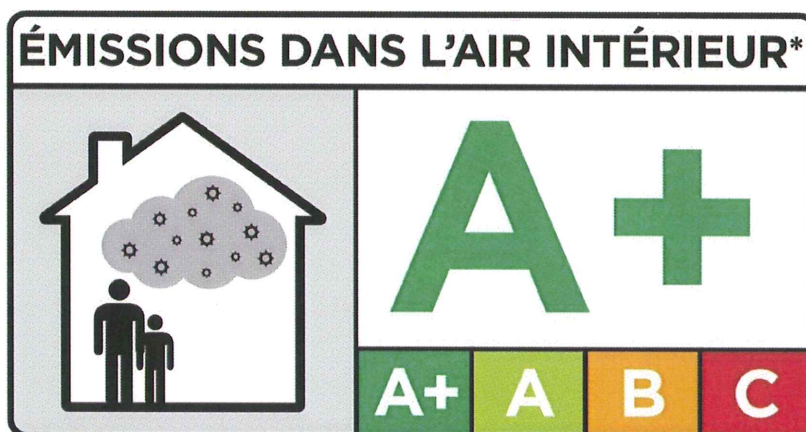
Date
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1. Sample Information

Sample identification	PVC film : COVER-X Sample n° 379565
Product type	Wall covering
Batch no.	379565
Production date	-
Date when sample was received	21/02/2012
Testing (start - end)	15/03/2012 - 12/04/2012

2. Resulting VOC Emissions Class Label

This recommendation is based on French regulation as published on 25 March 2011 (décret DEVL1101903D) and on 13 May 2011 (arrêté DEVL1104875A). For details please see www.eurofins.com/france-voc



**Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).*

The results are only valid for the tested sample(s).

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3. Test Method

Method	Principle	Parameter	Detection limit	Uncertainty	
ISO 16000 parts -3, -6, -9, -11 Internal method numbers: 9810, 9811, 9812, 2808, 8400	GC/MS HPLC/UV	VOC Volatile aldehydes	2 µg/m ³ 3 µg/m ³	22% (RSD) Um = 2 x RSD = 45 %	
Test chamber parameter					
Chamber volume (L):	119	Temperature (C):	23	Relative humidity (%):	50
Air change rate (per hour):	0.5	Loading ratio(m ² /m ³)	1		
Test condition: Sample stayed in test chamber during the whole 28 days testing period.					
Sample preparation					
Sample is applied on a glass plate. The product sample was not properly wrapped.					

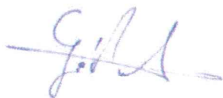
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4. Results

	Concentration after 28 days $\mu\text{g}/\text{m}^3$	C	B	A	A+
TVOC	110	>2000	<2000	<1500	<1000
Formaldehyde	<3	>120	<120	<60	<10
Acetaldehyde	<3	>400	<400	<300	<200
Toluene	36	>600	<600	<450	<300
Tetrachloroethylene	<2	>500	<500	<350	<250
Ethylbenzene	<2	>1500	<1500	<1000	<750
Xylene	<2	>400	<400	<300	<200
Styrene	<2	>500	<500	<350	<250
2-Butoxyethanol	<2	>2000	<2000	<1500	<1000
Trimethylbenzene	<2	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	<2	>120	<120	<90	<60

< Means less than
> Means higher than



Pascal Ge
Analytical Service Manager

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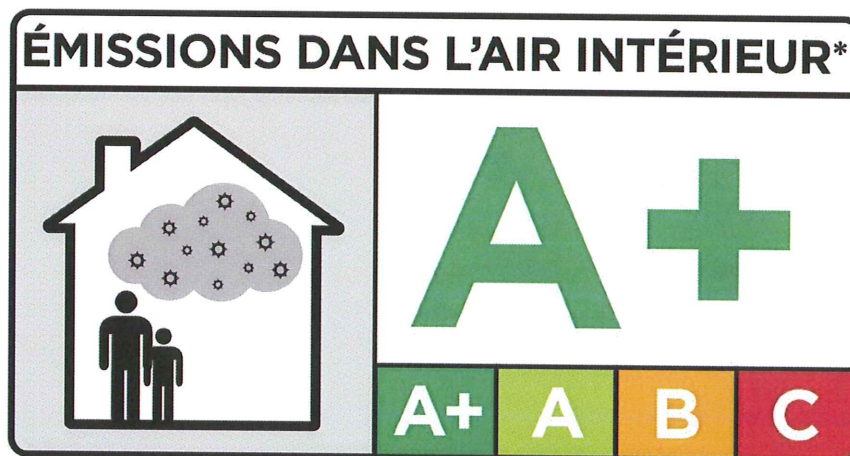
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1. Sample Information

Sample identification	PVC film : COVER-X 379564
Product type	Wall Paper covering
Batch no.	-
Production date	-
Date when sample was received	21/02/2012
Testing (start - end)	13/03/2012 - 10/04/2012

2. Resulting VOC Emissions Class Label

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Test chamber parameter				
Chamber volume (L):	119	Temperature (C):	23	Relative humidity (%): 50
Air change rate (per hour):	0.5	Loading ratio(m ² /m ³)	1	
Test condition: Sample stayed in test chamber during the whole 28 days testing period.				
The sample arrived unwrapped				
Sample preparation				
Applied onto a glass plate				

The results are only valid for the tested sample(s).

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4. Results

	Concentration after 28 days $\mu\text{g}/\text{m}^3$	C	B	A	A+
TVOC	140	>2000	<2000	<1500	<1000
Formaldehyde	<3	>120	<120	<60	<10
Acetaldehyde	<3	>400	<400	<300	<200
Toluene	79	>600	<600	<450	<300
Tetrachloroethylene	<2	>500	<500	<350	<250
Ethylbenzene	<2	>1500	<1500	<1000	<750
Xylene	<2	>400	<400	<300	<200
Styrene	<2	>500	<500	<350	<250
2-Butoxyethanol	<2	>2000	<2000	<1500	<1000
Trimethylbenzene	<2	>2000	<2000	<1500	<1000
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