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Emission Test Certificate

Tuesday 12rth April 2022

Supplier: Woven Image Pty Ltd (37-39 Chard Road, BROOKVALE, NSW, 2100, AUSTRALIA)

Sample Description: EMBOSSED IV PET (51% Recycled) Panel

Date Tested: March 2022 (Tested by FORAY Laboratories – NATA Accreditation 1231)

Test Method: Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.2: 2017 (Emission testing method for California Specification CA 01350)

Sample and Chamber conditions during test period:

Temperature	23.2°C ± 0.4°C
Humidity	51% ± 5%
Chamber Volume	50L
Chamber Flow Rate	0.778 L/min
Chamber Pressure	102.5 kPa
Product Loading	0.68 m^2/m^3
Air Exchange Rate	0.945 hr^{-1}
Emission Collection Time	1350 min for formaldehyde and aldehydes and 120 min for Thermal Desorption tubes VOCs.
Sample Surface Area	0.034 m^2
Exposure of sample in chamber	14 days (336 hours)

Test summary: The air samples were collected from the emission chamber at 336 hours for aldehydes and VOCs. The aldehyde gases were collected on DNPH-treated silica tubes (SKC 226-119) and analysed by Ultra High-Performance Liquid Chromatography (UHPLC). The VOC gases were collected on Tenax TA Thermal Desorption tubes and analysed by ATD-GC-MS as TO-17.

Emission Data:

California Specification CA 01350	EMBOSSED IV PET (51% Recycled) Panel
TVOC Emission Rate Limit: <0.500 mg/m^3	TVOC Emission Rate*: <0.010 mg/m^3
Formaldehyde Emission Rate Limit: <9 µg/m^3	Formaldehyde Emission Rate*: <5 µg/m^3
All other Target CREL VOCs and their emission rate are well below the maximum allowable concentrations in accordance with Table 4-1 of the standard method (please see it in Annex 1 below).	

** The stated result was calculated from an emission rate applied to the Standard Private Office Model (Table 4-4) using 33.4 m^2 exposed wall area, room volume of 30.6 m^3, and ventilation rate of 0.68 hr^{-1}.*

Embossed IV PET (51% Recycled) Panel sample

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Annex 1: TVOC & Target VOC estimated concentration as Table 4-1 from Embossed IV PET (51% Recycled) Panel.

Sample ID	CAS number	Estimated Concentrations* (µg/m³)
Analyte		**149898**
TVOC (C_5-C_{17})	-	**<0.010**
Acetaldehyde	**75-07-0**	<5.0
Benzene	**71-43-2**	<2.0
Carbon disulfide	**75-15-0**	<2.0
Carbon tetrachloride	**56-23-5**	<2.0
Chlorobenzene	**10-90-7**	<2.0
Chloroform	**67-66-3**	<2.0
1,4-dichlorobenzene	**106-46-7**	<2.0
1,1-dichloroethene	**75-35-4**	<2.0
N, N-dimethylformamide	**68-12-2**	<2.0
1,4-dioxane	**123-91-1**	<2.0
Epichlorohydrin	**106-89-8**	<2.0
Ethylbenzene	**100-41-4**	<2.0
Ethylene glycol	**107-21-1**	<2.0
Ethylene glycol monomethyl ether	**110-80-5**	<2.0
Ethyleneglycol monomethyl ether acetate	**111-15-9**	<2.0
Ethyleneglycol monomethyl ether	**109-86-4**	<2.0
Ethyleneglycol monomethyl ether acetate	**110-49-6**	<2.0
Formaldehyde	**50-00-0**	<5.0
n-hexane	**110-54-3**	<2.0
Isophorone	**78-59-1**	<2.0
Isopropanol	**67-63-0**	<2.0
Methyl chloroform	**71-55-6**	<2.0
Methylene chloride	**75-09-2**	5.0
Methyl *t*-butyl ether	**1634-04-4**	<2.0
Naphthalene	**91-20-3**	<2.0
Phenol	**108-95-2**	<2.0
Propylene glycol monomethyl ether	**107-98-2**	<2.0
Styrene	**100-42-5**	<2.0
Tetrachloroethene	**127-18-4**	<2.0
Toluene	**108-88-3**	3.0
Tricholoroethylene	**79-01-6**	<2.0
Vinyl acetate	**108-05-4**	<2.0
Xylenes (m-, o- & p-)	**108-38-3, 95-47-6, 106-42-3**	2.0

** The stated result was calculated from an emission rate applied to the Standard Private Office Model (Table 4-4) using 33.4 m^2 exposed ceiling area, room volume of 30.6 m^3, and ventilation rate of 0.68 hr^{-1}.*