



Test Report

No. SDHL1709020614HI

Date: Oct.26, 2017

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CHEUNG KEE CANVAS LTD
G/F, 352, RECLAMATION STREET, KOWLOON, HONG KONG.

The following sample(s) was / were submitted and identified on behalf of the client as:

- Sample Description : PVC TARPAULIN
- SGS Ref. No. : CAN17-196919
- Style / Item No. : CK 2009
- Sample Receiving Date : Sep.29, 2017
- Test Performing Date : Sep.29, 2017 to Oct.25, 2017

Test Result Summary

Test(s) Requested	Result(s)	Comments
To determine the Volatile Organic Compounds(VOCs) emission from the submitted sample(s).	See Results	/
For further details, please refer to the following page(s)		

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.

Peter Zhao
Approved signatory



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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN17-196919.001	"PVC Tarpaulin"

VOCs:

Test Method

: With reference to ISO 16000-9:2006 / COR1-2007 & ISO 16000-6:2011 & ISO 16000-3:2011.

Testing was performed by Environmental Chamber (0.05m³), followed by sampling using Tenax-TA and DNPH tube, analysis using Thermodesorption System with Gas Chromatography Mass Spectrometry (TDS-GC/MS) and High Performance Liquid Chromatography-DAD (HPLC-DAD).

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Test Item(s)	CAS No.	Results [mg/m ³]
		7 th day
Aromatic Hydrocarbons		
Benzene	71-43-2	ND
Toluene	108-88-3	ND
Ethylbenzene	100-41-4	ND
m/p-Xylene	108-38-3/ 106-42-3	ND
o-Xylene	95-47-6	ND
n-Propylbenzene	103.65-1	ND
1,2,4-Trimethylbenzene	95-63-6	ND
1,3,5-Trimethylbenzene	108-67-8	ND
2-Ethyltoluene	611-14-3	ND
Styrene	100-42-5	ND
Naphthalene	91-20-3	ND
4-Phenylcyclohexene	4994-16-5	ND

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Aliphatic Hydrocarbons		
Hexane	110-54-3	ND
Heptane	142-82-5	ND
Octane	111-65-9	ND
Nonane	111-84-2	ND
Decane	124-18-5	ND
Undecane	1120-21-4	ND
Dodecane	112-40-3	ND
Tridecane	629-50-5	ND
Tetradecane	629-59-4	ND
Pentadecane	629-62-9	ND
Hexadecane	544-76-3	ND
2-Methylpentane	107-83-5	ND
3-Methylpentane	96-14-0	ND
1-Octene	111-66-0	ND
1-Decene	872-05-9	ND
Cycloalkanes		
Methylcyclopentane	96-37-3	ND
Cyclohexane	110-82-7	ND
Methylcyclohexane	108-87-2	ND
Terpenes		
3-Carene	13466-78-9	ND
a-Pinene	80-56-8	ND
b-Pinene	18172-67-3	ND
Limonene	138-86-3	ND
Alcohols		
2-Propanol	67-63-0	ND
1-Butanol	71-36-3	ND
2-Ethyl-1-hexanol	104-76-7	0.007
Phenol	108-95-2	0.007
Glycols/Glycol Ethers		
2-Methoxyethanol	109-86-4	ND
2-Ethoxyethanol	110-80-5	ND
2-Butoxyethanol	111-76-2	ND
1-Methoxy-2-propanol	107-98-2	ND
2-Butoxyethoxyethanol	112-34-5	ND



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Aldehydes		
Butanal	123-72-8	ND
Pentanal	110-62-3	ND
Hexanal	66-25-1	ND
Nonanal	124-19-6	ND
Benzaldehyde	100-52-7	ND
Ketones		
2-Butanone	78-93-3	ND
Methylisobutylketone	108-10-1	ND
Cyclohexanone	108-94-1	ND
Acetophenone	98-86-2	ND
Halocarbons		
Trichloroethene	79-1-6	ND
Tetrachloroethylene	127-18-4	ND
1,1,1-Trichloroethane	71-55-6	ND
1,4-Dichlorobenzene	106-46-7	ND
Epichlorohydrin	106-89-8	ND
Methylene chloride	75-09-2	ND
Chloroform	67-66-3	ND
Chlorobenzene	108-90-7	ND
Acids		
Hexanoic acid	142-62-1	ND
Esters		
Ethyl acetate	141-78-6	ND
Butyl acetate	123-86-4	ND
Isopropyl acetate	108-21-4	ND
2-Methoxyethylacetate	110-49-6	ND
2-Ethoxyethylacetate	111-15-9	ND
TXIB	6846-50-0	ND
Vinyl acetate	108-05-4	ND
Others		
2-Pentylfuran	3777-69-3	ND
Tetrahydrofuran	109-99-9	ND
1,4-Dioxane	123-91-1	ND
N,N-Dimethylformamide	68-12-2	ND
1-Methyl-2-pyrrolidinone	872-50-4	ND
TVOC	-	0.024

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- Remark: 1. ND=not detectable (<R.L.)
 2. R.L.= 0.002mg/m³
 3. mg/m³ = milligrams per cubic metre
 4. Results were based on semi-quantitative analysis and calculated by toluene TIC calibration curve.

Carbonyl Compounds:

Test Item(s)	CAS No.	Results [mg/m ³]
		7 th day
Formaldehyde	50-00-0	ND
Acetaldehyde	75-07-0	ND

- Remark: 1. ND=not detectable (<R.L.)
 2. R.L.= 0.002mg/m³
 3. mg/m³ = milligrams per cubic metre

Test condition

Chamber Volume (m ³)	0.05	Testing Temperature (°C)	23
Testing Humidity (rH%)	50	Air Exchange Rate (1/h)	0.5
Sample Loading (m ² /m ³)	1		
Tenax Sampling Flow (mL/min)	200	DNPH Sampling Flow (mL/min)	200
Tenax Sampling Time (min)	25	DNPH Sampling Time (min)	90
Tenax Sampling Volume (L)	5	DNPH Sampling Volume (L)	18

Photo Appendix:



Remark: This test was subcontracted to SGS-CSTC Standards Technical Services Co.,Ltd. Guangzhou Branch.

*****End of Report*****

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