



Mark Information

PVC-free Kavalan banner

Product Model: Sunlight 280GB

Mark Information

Greenhouse gas emissions of packaged PVC-free Kavalan banner (model Sunlight 280GB) for industrial application are **1.3 kgCO₂e** per 1 square meter (m²) unit. The calculation is based on the data collected from January 2020 to September 2020 from cradle to grave.

SGS Report No. **LCA20123-10**

For more information:

www.sgsgroup.com.cn

Example:



Greenhouse gas emissions of packaged PVC-free Kavalan banner (model Sunlight 280GB) for industrial application are **1.3 kgCO₂e** per 1 square meter (m²) unit. The calculation is based on the data collected from January 2020 to September 2020 from cradle to grave.

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Greenhouse gas emissions of packaged PVC-free Kavalan banner (model Sunlight 280GB) for industrial application are **1.3 kgCO₂e** per 1 square meter (m²) unit. The calculation is based on the data collected from January 2020 to September 2020 from cradle to grave.

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TEST REPORT

Test Report No. 87.405.21.3655.01
Dated 2021-04-08



ORIGINAL

Applicant : TAYA CANVAS (SHANGHAI) COMPANY LIMITED
Address : No.777 Fengguan Road Fengjing Industrial Zoon Jinshan District Shanghai
Attn : Alice

Order No. : -
Style No. : -
Season : -
Manufacturer : -
Buyer : -
Country Of Origin : -
Goods Export To : -
Care Label Provided : -

Receipt Date Of Sample : Received On 2021-03-30
Date Of Testing : From 2021-03-30 To 2021-04-08
Sample Submitted : The Sample(s) Was (Were) Submitted By Applicant and Identified.
Test Result : Refer To Next Page.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center
Prepared by:

Abby Zhu

Abby Zhu
Softlines Department

Authorized by:

Andy Wang

Andy Wang
Softlines Department

Note: (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.

For full version, please visit: <http://www.tuv-sud.cn/cn-scn/terms-and-conditions>

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Description Of The Test Subject

Sample	Description	Photo
A	Sunlight 280GB fabric in grey back	

Conclusion

Test Items	Test Component	Conclusion
1. REACH SVHC_211	A	Pass

Remarks: Pass = Meet General Requirement
* = No Specified Requirement
N/A = Not Applicable
Fail = Below General Requirement
= No Comments
- = Not Conducted

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

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Test Results

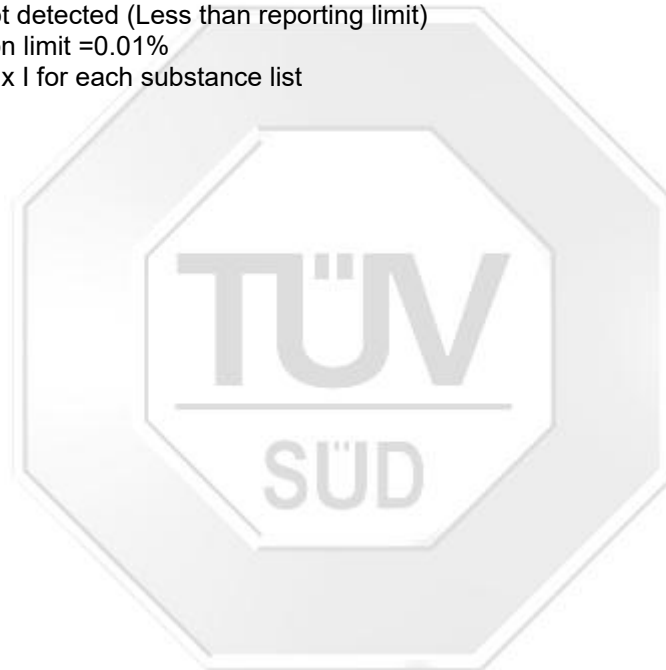
1 REACH SVHC_211

Analysis of the 211 substances of very high concern (SVHC) on the Candidate List for authorization, concerning Regulation (EC) No. 1907/2006 as published on the European Chemicals Agency (ECHA) website in October 2008, January 2010, March 2010, June 2010, December 2010, June 2011, December 2011, June 2012, December 2012, June 2013, December 2013, June 2014, December 2014, June 2015, December 2015, June 2016, January 2017, July 2017 and January 2018, June 2018, January 2019, July 2019, January 2020, June 2020, January 2021

Analysis based on LCMS, GCMS, Headspace-GCMS, ICP-OES/AAS, UV-VIS and XRF

Parameters	Result [%]	General Requirement
	A	
211 substances of very high concern	ND	<0.1%

Remarks: ND = not detected (Less than reporting limit)
Detection limit =0.01%
Appendix I for each substance list



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No.	Substance Name	CAS No
1.	Benzyl butyl phthalate (BBP)	85-68-7
2.	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7
3.	Dibutyl phthalate (DBP)	84-74-2
4.	4,4'-Diaminodiphenylmethane (MDA)	101-77-9
5.	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2
6.	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
7.	Cobalt Dichloride**	7646-79-9
8.	Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6
9.	Sodium dichromate, dihydrate**	7789-12-0/ 10588-01-9
10.	Anthracene	120-12-7
11.	Lead hydrogen arsenate**	7784-40-9
12.	Bis(tributyltin)oxide (TBTO)	56-35-9
13.	Diarsenic pentaoxide**	1303-28-2
14.	Diarsenic trioxide**	1327-53-3
15.	Triethyl arsenate**	15606-95-8
16.	2,4-Dinitrotoluene	121-14-2
17.	Anthracene oil###	90640-80-5
18.	Anthracene oil, anthracene paste, distn, lights###	91995-17-4
19.	Anthracene oil, anthracene paste, anthracene fraction###	91995-15-2
20.	Anthracene oil, anthracene-low###	90640-82-7
21.	Anthracene oil, anthracene paste###	90640-81-6
22.	Lead chromate**	7758-97-6
23.	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)**	12656-85-8
24.	Lead sulfochromate yellow (C.I. Pigment Yellow 34)**	1344-37-2
25.	Diisobutyl phthalate (DIBP)	84-69-5
26.	Tris(2-chloroethyl)phosphate	115-96-8
27.	Pitch, coal tar, high temperature##	65996-93-2
28.	Acrylamide	79-06-1
29.	Trichloroethylene	79-01-6
30.	Boric acid**	10043-35-3/ 11113-50-1
31.	Disodium tetraborate, anhydrous**	1330-43-4/ 12179-04-3
32.	Tetraboron disodium heptaoxide, hydrate(calculate as decahydrate)**	12267-73-1
33.	Sodium chromate**	7775-11-3
34.	Potassium chromate**	7789-00-6
35.	Ammonium dichromate**	7789-09-5
36.	Potassium dichromate**	7778-50-9
37.	Cobalt(II) sulphate**	10124-43-3
38.	Cobalt(II) dinitrate**	10141-05-6
39.	Cobalt(II) carbonate**	513-79-1
40.	Cobalt(II) diacetate **	71-48-7
41.	2-Methoxyethanol	109-86-4
42.	2-Ethoxyethanol	110-80-5
43.	Chromium trioxide**	1333-82-0

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No.	Substance Name	CAS No
44.	Acids generated from chromium trioxide and their oligomers: a. Chromic acid** b. Dichromic acid ** c. Oligomers of chromic acid and dichromic acid **	7738-94-5/ 13530-68-2 --
45.	2-Ethoxyethyl acetate (2-EEA)	111-15-9
46.	Strontium chromate**	7789-06-2
47.	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4
48.	Hydrazine	7803-57-8 302-01-2
49.	1-Methyl-2-pyrrolidone	872-50-4
50.	1,2,3-Trichloropropane	96-18-4
51.	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6
52.	1,2-Dichloroethane	107-06-2
53.	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
54.	2-Methoxyaniline, o-Anisidine	90-04-0
55.	4-tert-Octylphenol	140-66-9
56.	Aluminosilicate Refractory Ceramic Fibres**	--
57.	Arsenic acid **	7778-39-4
58.	Bis(2-methoxyethyl) ether	111-96-6
59.	Bis(2-methoxyethyl) phthalate	117-82-8
60.	Calcium arsenate**	7778-44-1
61.	Dichromium tris(chromate) **	24613-89-6
62.	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
63.	Lead diazide**	13424-46-9
64.	Lead dipicrate**	6477-64-1
65.	Lead styphnate **	15245-44-0
66.	N,N-dimethylacetamide (DMAC)	127-19-5
67.	Pentazinc chromate octahydroxide**	49663-84-5
68.	Phenolphthalein	77-09-8
69.	Potassium hydroxyoctaoxidizincatedichromate**	11103-86-9
70.	Trilead diarsenate**	3687-31-8
71.	Zirconia Aluminosilicate, Refractory Ceramic Fibres**	--
72.	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
73.	1,2-dimethoxyethane;ethylene glycol dimethyl ether (EGDME)	110-71-4
74.	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol#	561-41-1
75.	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
76.	4-[4,4'-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3)#	548-62-9
77.	[4-[[4-anilino-1-naphthyl][4-(dimethylamino) phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)#	2580-56-5
78.	Diboron trioxide**	1303-86-2
79.	Lead(II)bis(methanesulfonate)**	17570-76-2
80.	Formamide	75-12-7
81.	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
82.	TGIC(1,3,5-tris(oxiranylethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9
83.	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)#	6786-83-0

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No.	Substance Name	CAS No
84.	β -TGIC(1,3,5-tris[(2S and2R)-2,3-epoxypropyl] 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6
85.	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5
86.	Pentacosafuorotridecanoic acid	72629-94-8
87.	Tricosafuorododecanoic acid	307-55-1
88.	Henicosafuoroundecanoic acid	2058-94-8
89.	Heptacosafuorotetradecanoic acid	376-06-7
90.	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologue (OPEO)	--
91.	4-Nonylphenol, branched and linear -substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof (NP)	--
92.	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
93.	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7
94.	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9
95.	Methoxy acetic acid	625-45-6
96.	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
97.	Diisopentylphthalate (DIPP)	605-50-5
98.	N-pentyl-isopentylphthalate	--
99.	1,2-Diethoxyethane	629-14-1
100.	N,N-dimethylformamide (DMFA)	68-12-2
101.	Dibutyltin dichloride (DBT)	683-18-1
102.	Acetic acid, lead salt, basic**	51404-69-4
103.	Basic lead carbonate (trilead bis(carbonate)dihydroxide)**	1319-46-6
104.	Lead oxide sulfate (basic lead sulfate)**	12036-76-9
105.	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)**	69011-06-9
106.	Dioxobis(stearato)trilead**	12578-12-0
107.	Fatty acids, C16-18, lead salts**	91031-62-8
108.	Lead bis(tetrafluoroborate)**	13814-96-5
109.	Lead cyanamate**	20837-86-9
110.	Lead dinitrate**	10099-74-8
111.	Lead oxide (lead monoxide)**	1317-36-8
112.	Lead tetroxide (orange lead)**	1314-41-6
113.	Lead titanium trioxide**	12060-00-3
114.	Lead Titanium Zirconium Oxide**	12626-81-2
115.	Pentalead tetraoxide sulphate**	12065-90-6
116.	Pyrochlore,antimony lead yellow**	8012-00-8
117.	Silicic acid, barium salt, lead-doped**	68784-75-8
118.	Silicic acid, lead salt**	11120-22-2
119.	Sulfurous acid, lead salt, dibasic**	62229-08-7
120.	Tetraethyllead**	78-00-2
121.	Tetralead trioxide sulphate**	12202-17-4
122.	Trilead dioxide phosphonate**	12141-20-7

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No.	Substance Name	CAS No
123.	Furan	110-00-9
124.	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9
125.	Diethyl sulphate	64-67-5
126.	Dimethyl sulphate	77-78-1
127.	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
128.	Dinoseb	88-85-7
129.	4,4'-methylenedi-o-toluidine	838-88-0
130.	4,4'-oxydianiline and its salts	101-80-4
131.	4-Aminoazobenzene	60-09-3
132.	4-methyl-m-phenylenediamine	95-80-7
133.	6-methoxy-m-toluidine	120-71-8
134.	Biphenyl-4-ylamine	92-67-1
135.	o-aminoazotoluene	97-56-3
136.	o-Toluidine	95-53-4
137.	N-methylacetamide	79-16-3
138.	1-bromopropane; n-propyl bromide	106-94-5
139.	Cadmium**	7440-43-9
140.	Cadmium oxide**	1306-19-0
141.	Dipentyl phthalate (DPP)	131-18-0
142.	4-Nonylphenol, branched and linear, ethoxylated (NPEO)	--
143.	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
144.	Pentadecafluorooctanoic acid (PFOA)	335-67-1
145.	Cadmium sulphide**	1306-23-6
146.	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)	573-58-0
147.	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7
148.	Dihexyl phthalate	84-75-3
149.	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
150.	Lead di(acetate)**	301-04-2
151.	Trixylenyl phosphate	25155-23-1
152.	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
153.	Cadmium chloride**	10108-64-2
154.	Sodium perborate; perboric acid, sodium salt**	--
155.	Sodium peroxometaborate**	7632-04-4
156.	Cadmium fluoride**	7790-79-6
157.	Cadmium sulphate**	10124-36-4/ 31119-53-6
158.	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
159.	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
160.	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
161.	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-
162.	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1

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No.	Substance Name	CAS No
163.	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]	117933-89-8
164.	1,3-propanesultone	1120-71-4
165.	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
166.	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
167.	Nitrobenzene	98-95-3
168.	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorooctadecanoic acid) and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
169.	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8
170.	4,4'-isopropylidenediphenol	80-05-7
171.	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2, 3830-45-3, 3108-42-7
172.	4-Heptylphenol, branched and linear	--
173.	p-(1,1-dimethylpropyl)phenol	80-46-6
174.	Perfluorohexane-1-sulphonic acid and its salts(PFHxS)	355-46-4
175.	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	--
176.	Benz[a]anthracene	56-55-3
177.	Cadmium nitrate	10325-94-7
178.	Cadmium carbonate	513-78-0
179.	Cadmium hydroxide	21041-95-2
180.	Chrysene	218-01-9
181.	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	--
182.	Octamethylcyclotetrasiloxane (D4)	556-67-2
183.	Decamethylcyclopentasiloxane (D5)	541-02-6
184.	Dodecamethylcyclohexasiloxane (D6)	540-97-6
185.	Lead	7439-92-1
186.	Disodium octaborate	12008-41-2
187.	Benzo[ghi]perylene	191-24-2
188.	Terphenyl hydrogenated	61788-32-7
189.	Ethylenediamine (EDA)	107-15-3
190.	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7
191.	Dicyclohexyl phthalate (DCHP)	84-61-7
192.	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6
193.	Benzo[k]fluoranthene	207-08-9
194.	Fluoranthene	206-44-0
195.	Phenanthrene	85-01-8
196.	Pyrene	129-00-0
197.	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8
198.	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-

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Appendix I

No.	Substance Name	CAS No
199.	2-methoxyethyl acetate	110-49-6
200.	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-
201.	4-tert-butylphenol (PTBP)	98-54-4
202.	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1
203.	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
204.	Diisohexyl phthalate	71850-09-4
205.	Perfluorobutane sulfonic acid (PFBS) and its salts	-
206.	1-vinylimidazole	1072-63-5
207.	2-methylimidazole	693-98-1
208.	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4
209.	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8
210.	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8
211.	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-

Remarks: ** The substances are tested in terms of its respective elements and the test result is based on the calculation of selected elements/ market(s) and to the worst-case scenario. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.

The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents. Individual concentrations to the constituent of UVCB with an amount of $<0.01\%$ were not considered by the calculation of the sum. Calculation is based on the worst-case scenario. Due to the UVCB nature the reported values may be regarded as semi-quantitative.

only applicable with $\geq 0.1\%$ of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)

TGIC is a mixture and also contains β -TGIC. According to ECHA's technical dossier the ratio of β -TGIC to TGIC is around 1 to 10. Therefore β -TGIC is issued based on the above-mentioned ratio.

-End of The Test Report-

Life Cycle Assessment (LCA) Statement

The organization

TAYA CANVAS (SHANGHAI) CO., LTD.

No. 777 Fengguan Road, Jinshan District, Shanghai, China

Product

PVC-free Kavalan banner

Product Model: Sunlight 280GB

Functional Unit

**1 square meter (m²) packaged PVC-free Kavalan banner
(model Sunlight 280GB) for industrial application**

Life Cycle Assessment (SGS Report No. LCA20123-10) for above mentioned product is conducted in accordance with ISO14040:2006 Environmental Management – Life Cycle Assessment – Principles and framework & ISO14044:2006 Environmental Management – Life Cycle Assessment – Requirements and guidelines.

This LCA is based on the data and supporting materials submitted by above organization on Nov 02, 2020, details please refer to SGS report: LCA20123-10.

Signed by

Issue Date: 31/12/2020
Green Product Service
Voluntary Certification Centre

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