



中国认可  
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检测  
TESTING  
CNAS L0823



201719001121

# 广州市微生物研究所

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

## 检测报告

## TEST REPORT

Report Number

KJ20191555

Name of Sample

AIRPLOT Solar CarPad

艾谱德光能车垫

ソーラーカーパッド

Applicant

Zhejiang AirPlot Technology Co. Ltd



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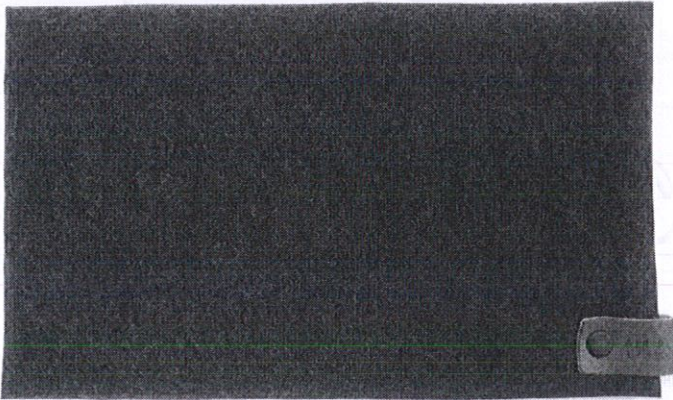
Test No.KJ20191555

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

TEST REPORT

Date Received: Jul. 15, 2019

Date Analyzed: Jul. 22, 2019

Name of Sample	AIRPLOT Solar CarPad 艾谱德光能车垫 ソーラーカーパッド	Source of Sample	Delivery
Applicant	Zhejiang AirPlot Technology Co. Ltd	Client	Wang Di
Manufacturer	Zen-World Company 日本株式会社全一世界 日本ゼンワールド	Brand	AIRPLOT 艾谱德 エアープロット
Type and Specification	15 cm×25 cm	Quantity of Sample	1 Set (9 PCs)
Date of Production	Apr-30-2019	State of Sample	Piece
Batch Number	20190430-1	Packing of Sample	In Bag
Sample Picture			
Standard and Methods	1. QB/T 2761-2006 Determination methods for purifying effect of indoor air purification products 2. GB/T 18204.2-2014 Examination methods for public places — Part 2: Chemical pollutants 7.2 MBTH spectrophotometry 3. GB/T 11737-1989 Standard method for hygienic examination of benzene, toluene and xylene in air of residential areas-Gas chromatography		
Items of Analysis	Removal rate (Formaldehyde, Toluene, TVOC)		
Remarks	The black light with a wavelength of 350 nm is turned on during the test.		

\*\*\*To be continued\*\*\*





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Date Received: Jul. 15, 2019

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#### Method for testing gaseous pollutant removal:

- Test conditions
  - Environment temperature:  $(25 \pm 2) ^\circ\text{C}$
  - Environment humidity:  $(50 \pm 10) \% \text{RH}$ .
- Test equipment  
Test chamber ( $1.5 \text{ m}^3$ ), constant current atmospheric sampler, UV-VIS spectrophotometer, Gas chromatograph.
- Test procedures
  - Sample preparation: Place 9 samples (size:  $15 \text{ cm} \times 25 \text{ cm}$  / piece) in test chamber B, a 350 nm black light was placed between two adjacent samples, the distance between the black light and the sample is less than 5 cm.
  - Preparation of release source: Put two glass rods winded around with five pieces gauze upright into two 500 mL reagent bottles, respectively pour 200 mL pollutant formaldehyde (0.2 %), toluene (0.1 %), TVOC (benzene 0.06 %, toluene 0.1 %, xylene 0.4 %) tab on A<sub>1</sub>, A<sub>2</sub>.
  - Put the release source A<sub>1</sub>, A<sub>2</sub> separate into control chamber A and test chamber B, close the door immediately, then turn on the black light.
  - Turn on the chamber fan of A and B to stir for one minute, then turn off the fan, and turn on the light.
  - After 24 h, the samples of A and B were tested and analyzed, concentration were recorded as C<sub>A</sub> and C<sub>B</sub>.

#### 4. Computational formula

Removal rate:

$$y(\%) = \frac{C_A - C_B}{C_A} \times 100 \quad (C_A \text{ blank text chamber concentration, } C_B \text{ test chamber concentration})$$

#### Test Results

Number of Sample	Pollutant	Test Time (h)	Control chamber	Test chamber	Removal rate y (%)
			Concentration C <sub>A</sub> (mg/m <sup>3</sup> )	Concentration C <sub>B</sub> (mg/m <sup>3</sup> )	
KJ20191555-1	Formaldehyde	24	1.04	0.15	85.6
	Toluene	24	1.96	0.39	80.1
	TVOC	24	5.70	1.03	81.9

\*\*\*End of report\*\*\*

Editor

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