

Test Report

No. SHAAUTO1818016701

Date: 28 Aug 2018

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GUANDONG TIMWELL ECO-MATERIAL CO.,LTD
6th Floor UFA Building,Houjie Town,Dongguan

The following sample(s) was/were submitted and identified on behalf of the clients as : High performance special leather

SGS Job No. : SHAT1808028877NM - SH
Manufacturer : GUANDONG TIMWELL ECO-MATERIAL CO.,LTD
Client Ref. Information : GZAT1808014199NM
Production Date: 2018-07-31
Packing Date: 2018-07-31
Material Name : Silica gel
Date of Sample Received : 10 Aug 2018
Testing Period : 10 Aug 2018 - 28 Aug 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Dany shen

Dany Shen
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA18-180167.001	High performance special leather

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

VOC Emissions

Test Method : With reference to ISO 12219-4:2013, VOCs was performed by Thermodesorption System and Gas Chromatography Mass Spectrometry (TDS-GC-MS).

Sample 001:

Sampling Condition :

Sampling date: 20180813
 Test Piece Weight: 1.4 kg
 Condition of storage: 23°C±2°C RH50%±5%

Test Item(s)	Unit	MDL	Blank result	Sample Result
Benzene	µg/m ³	4	ND	ND
Toluene	µg/m ³	4	ND	ND
Ethylbenzene	µg/m ³	4	ND	ND
Xylene	µg/m ³	4	ND	ND
Styrene	µg/m ³	4	ND	ND
TVOC (C6~C16)	µg/m ³	4	ND	269

Aldehydes, Ketones

Test Method : With reference to ISO 12219-4:2013, analysis of Aldehydes and Ketones was performed by High Performance Liquid Chromatography (HPLC).

Sample 001:

Sampling Condition :



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Sampling date: 20180813
 Test Piece Weight: 1.4 kg
 Condition of storage: 23°C±2°C RH50%±5%

Test Item(s)	Unit	MDL	Blank result	Sample result
Formaldehyde	µg/m ³	10	ND	12
Acetaldehyde	µg/m ³	10	ND	10
Acrolein	µg/m ³	10	ND	ND
Acetone	µg/m ³	10	ND	ND
Butanone	µg/m ³	10	ND	ND

Notes :

- (1) According to client requirements, the test specimens were removed from the packaging and stored at standard atmosphere for 24h before the test.
- (2) Sample result is measuring result without deduction of blank result.

Value of on-line FID

Sample 001:

Sampling Condition :

Sampling date: 20180813
 Test Piece Weight: 1.4 kg
 Condition of storage: 23°C±2°C RH50%±5%
 humidity while sampling 5.1 %

Test Item(s)	Unit	MDL	Result
Blank before sampling FID	ppm	-	0.9
Blank after sampling FID	ppm	-	0.9
Sample before sampling FID	ppm	-	1.7
Sample after sampling FID	ppm	-	1.7
Average of sample FID	ppm	-	1.7
Unit mass FID	ppm/kg	-	1.2

Notes :

- (1) Unit mass FID = (sample before sampling FID + sample after sampling FID) / (2* test piece weight).

Odour



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Test Method : With reference to ISO 12219-4:2013 and PV 3900:2000 method.

Sample 001:

Tester	Evaluation scale-Door
1	Grade 3.0
2	Grade 3.0
3	Grade 3.0
Mean Value	Grade 3.0
Description	Leather

1) Nomenclature for Evaluation Scale (With reference to PV 3900:2000):

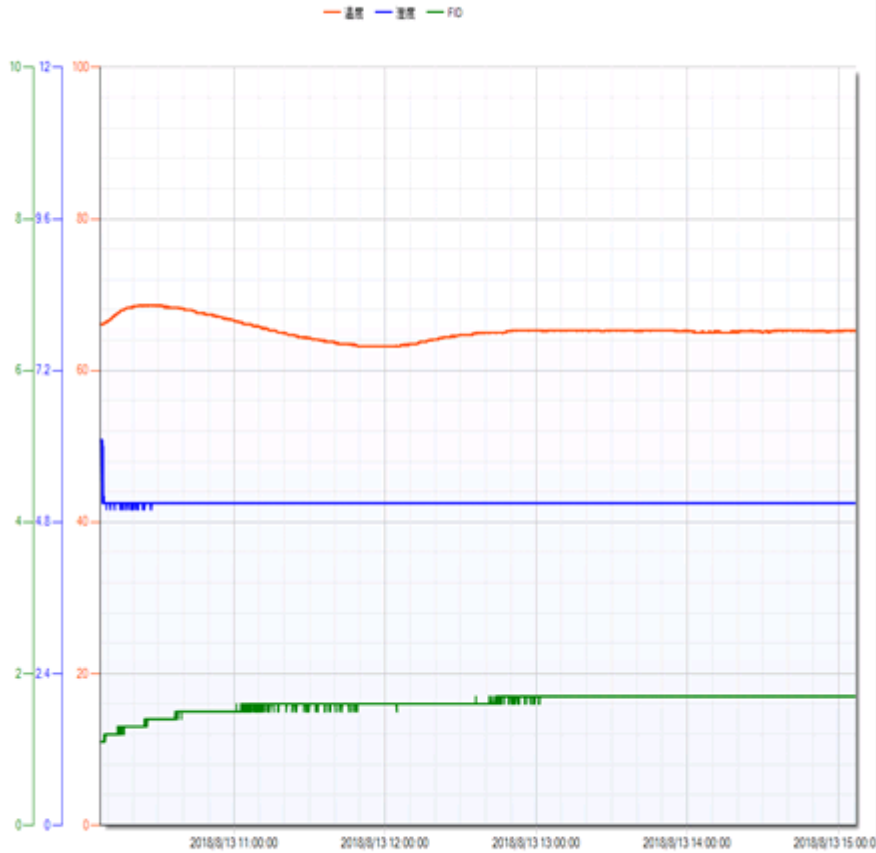
Evaluation Scale	Evaluation Description
Grade 1	Not perceptible
Grade 2	Perceptible, not offensive
Grade 3	Clearly perceptible, but not yet offensive
Grade 4	Offensive
Grade 5	Strongly offensive
Grade 6	Unbearable



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FID Spectrogram of on line:



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