

HEBEI YOUJIN FURNITURE CO
 LTD JINAN FURNITURE INDUSTRY ZONE, CHAOYANG STREET AND YONGXIN ROAD INTERSECTION,
 NANGONG ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, XINGTAI CITY, HEBEI PROVINCE

Sample Description : UC-318STG

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : TJHL2409008001FT/ CAN24-0214426

Sample Receiving Date : Sep 26, 2024

Test Performing Date : Sep 26, 2024 to Oct 15, 2024

Test Performed : Selected test(s) as requested by applicant

Test Result(s) : For further details, please refer to the following page(s)

	Test Requirement	Conclusion
1	ANSI/BIFMA X 7.1-2011(R2021) - Volatile Organic Compounds (VOCs) Emissions	Pass

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Joan Huang

Joan Huang
 Authorized Signatory

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 Verification:
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SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0214426-0001.C001	Chair

Remarks:

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

ANSI/BIFMA X 7.1-2011(R2021) - Volatile Organic Compounds (VOCs) Emissions

Test Method: With reference to ANSI/BIFMA M 7.1-2011(R2021). Testing was performed by Environmental Chamber, 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).

Test Item(s)	Limit	Unit(s)	MDL	A1
Test condition				
Chamber Volume	-	m ³	-	1.00
Air Exchange Rate	-	/h	-	1.0
Tenax Sampling Flow	-	mL/min	-	200
Tenax Sampling Time	-	minute(s)	-	25
Tenax Sampling Volume	-	L	-	5
DNPH Sampling Flow	-	mL/min	-	1000
DNPH Sampling Time	-	minute(s)	-	60
DNPH Sampling Volume	-	L	-	60
Concentrations in chamber(72 hours)				
TVOC _{toluene}	-	mg/m ³	0.002	0.051
Formaldehyde	-	mg/m ³	0.002	ND
Sum of Aldehydes	-	mg/m ³	0.002	ND
4-Phenylcyclohexene	-	mg/m ³	0.002	ND
Emission Factors in chambe(72 hours)				
TVOC _{toluene}	-	mg/(h·unit)	-	0.051
Formaldehyde	-	mg/(h·unit)	-	ND
Sum of Aldehydes	-	mg/(h·unit)	-	ND
4-Phenylcyclohexene	-	mg/(h·unit)	-	ND
Concentrations in chamber(168 hours)				
TVOC _{toluene}	-	mg/m ³	0.002	0.042
Formaldehyde	-	mg/m ³	0.002	ND
Sum of Aldehydes	-	mg/m ³	0.002	ND
4-Phenylcyclohexene	-	mg/m ³	0.002	ND
Emission Factors in chambe(168 hours)				



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Test Item(s)	Limit	Unit(s)	MDL	A1
TVOC _{toluene}	-	mg/(h·unit)	-	0.042
Formaldehyde	-	mg/(h·unit)	-	ND
Sum of Aldehydes	-	mg/(h·unit)	-	ND
4-Phenylcyclohexene	-	mg/(h·unit)	-	ND
Concentrations(Office 1)				
TVOC _{toluene}	0.25	mg/m ³	-	0.002
Formaldehyde	25	ppb	-	ND
Sum of Aldehydes	50	ppb	-	ND
4-Phenylcyclohexene	0.00325	mg/m ³	-	ND
Concentrations(Office 2)				
TVOC _{toluene}	0.25	mg/m ³	-	0.002
Formaldehyde	25	ppb	-	ND
Sum of Aldehydes	50	ppb	-	ND
4-Phenylcyclohexene	0.00325	mg/m ³	-	ND
Conclusion				Pass

Notes:

1. ND=not detectable (<MDL)
2. MDL= 0.002 mg/m³
3. TVOC_{toluene} is the method of measuring TVOC using the response factor of toluene.
4. Total Aldehydes is defined as the sum of the molar volume concentrations of all normal aldehydes from formaldehyde through nonanal plus benzaldehyde.
5. Office 1: Typical open plan office environment, its clean air ventilation rate Q₀=15.02m³/h or Q₀=24.8m³/h (for seating)
6. Office 2: Typical private office environment, its clean air ventilation rate Q₀=34.68m³/h or Q₀ =24.8m³/h (for seating)
7. Data at the 168th hour was used to calculate and compare with the emission limits.

Compounds	Unit	Limits of indoor air concentration	
		Systems Furniture	Seating
TVOC _{toluene}	mg/m ³	≤0.5	≤0.25
Formaldehyde	ppb	≤50	≤25
Total Aldehydes	ppb	≤100	≤50
4-Phenylcyclohexene	mg/m ³	≤0.0065	≤0.00325

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Product Photo

*** End of Report ***

