TEST REPORT

CheckCode:715869
Report No.:C202409186924-1E

Company Name: EASCO ELECTRICAL (JIANG SU) CO, LTD.
Address: No.88 ChaoYang Road, HuiPing Town, Qidong City, JiangSu Province

The following sample information is provided by the client and responsible for its authenticity

Sample Name: Low Smoke Halogen Free Wiring Duct
Material: PC+ABS
Supplier: EASCO ELECTRICAL (JIANG SU) CO, LTD.

Date of Receipt: Sep.18, 2024 Test Period: Sep.18, 2024 – Sep.24, 2024

Test Request:
1. To determine Formaldehyde, Acetaldehyde, Acrolein, Benzene, Toluene, Xylene, Ethylbenzene, Styrene and Total Volatile Organic Compounds (TVOC (C6-C16)) emission from the submitted sample.
2. To determine the top ten volatile organic compounds emission from the submitted sample.

Test Method: With reference to *Technical specification for formaldehyde and volatile organic compounds of main components and materials inside the vehicle*, SJTY-ZT-002, version F.

Test Result: Please refer to following page(s).

Edited by Tao Yuyin Reviewed by Tian Yongxin Approved by

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GRG METROLOGY&TEST GROUP CO.,LTD. GRGTEST APPROVED(02)

Issue date:Sep.24,2024

GRG METROLOGY & TEST GROUP CO., LTD.
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Tel: 4006020999 Fax: +86-020-38698685 Website: http://www.grgtest.com

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Sample Info	Sample Name	Low Smoke Halogen Free Wiring Duct			
	Precondition	Conditioning chamber, (23±2)℃, (50±5)%RH, 24h.			
	Pretreatment	Undone			
	Sample size	Whole		Weight	1.0kg
	Test date	2024-09-20		Analysis date	2024-09-24
Sampling Condition	Ambient condition	Ambient temperature (23±2)℃, Relative humidity (50±10)%RH.			
	Pump (TENAX)	GilAir PLUS	Collection rate (TENAX) (mL/min)		200
	Pump (DNPH)	GilAir PLUS	Collection time (TENAX) (min)		15
	Capacity of bag (L)	50	Collection volume (TENAX) (L)		3
	Nitrogen gas filled (L)	25	Collection rate (DNPH) (mL/min)		800
	Test temperature (℃)	25±1	Collection time (DNPH) (min)		15
	Test time (h)	16±0.5	Collection volume (DNPH) (L)		12

Analysis Condition	TDS-GC/MS	TDS	PE(ATD 350)
		GC/MS	Agilent(7890B/5977B)
		Column	Agilent Ultra2 (50m×0.32mm×0.52μm)
		Split ratio	66.7:1
	HPLC	HPLC	Dionex (Ultimate 3000)
		Carrier liquid	Acetonitrile/water
		Column	Zorbax SB-C18, 4.6mm×250mm, I.D 5μm
		Injected volume	20 μL

Equipment Name	Model	Management No.	Calibration Period
TDS-GC/MS	PE(ATD 350) -Agilent(7890B/5977B)	HX2016-G735 /HX2017-G1720	2023-09-09 – 2025-09-08
HPLC	Dionex(Ultimate 3000)	HX2010-G088	2023-08-19 – 2025-08-18
VOC Test Chamber	V-BIR-42	HX2018-G1502	2024-07-06 – 2025-07-05
Conditioning Chamber	V-MH-24	HX2017-G1707	2024-07-06 – 2025-07-05

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1. Test Results

No.	Test Item	Collected amount of sampling tube (μg/tube)	Emission concentration of sample (mg/m^3)
1	Benzene	N.D.	N.D.
2	Toluene	0.025	0.008
3	Ethylbenzene	0.013	0.004
4	Xylene	0.020	0.007
5	Styrene	0.034	0.012
6	TVOC (C6-C16)	0.100	0.034
7	Formaldehyde	0.490	0.041
8	Acetaldehyde	0.548	0.046
9	Acrolein	0.297	0.025

2. The top ten volatile organic compounds

No.	Substance Name	CAS No.	Collected amount of sampling tube (μg/tube)	Emission concentration of sample (mg/m^3)
1	Styrene#+2-Propenoic acid, butyl ester#	95+83	0.042	0.014
2	Toluene	94	0.025	0.008
3	p/m-Xylene	97/97	0.020	0.007
4	Ethylbenzene	91	0.013	0.004

Remark:

1. Method Detection Limit of Volatile Organic Compounds = 0.004mg/m^3.
2. Method Detection Limit of Aldehydes and Ketones = 0.002mg/m^3.
3. “N.D.” =Not Detected (Below Method Detection Limit).
4. “#” =Results are semi-quantitatively determined on account of toluene TIC linear regression curve. Semi-quantitative results are retrieved according to the Nist library of mass spectrometry.
5. Because there are only 4 substances between C6-C16, the semi-quantitative qualitative analysis of 4 substances are carried out.
6. The report is English version of test report C202409186924-1.

In case of divergence, the Chinese text shall be regarded as authentic.

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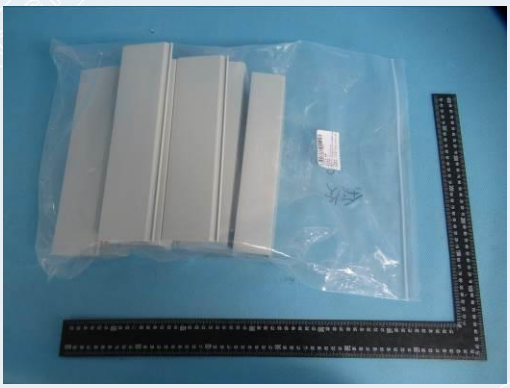
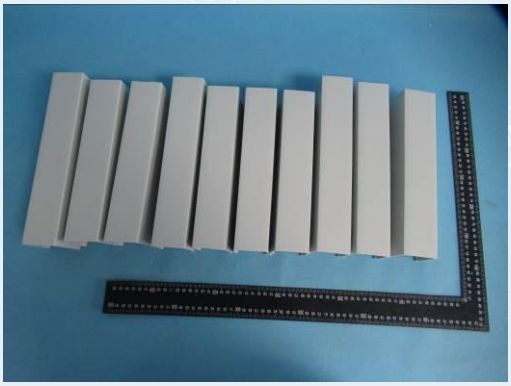
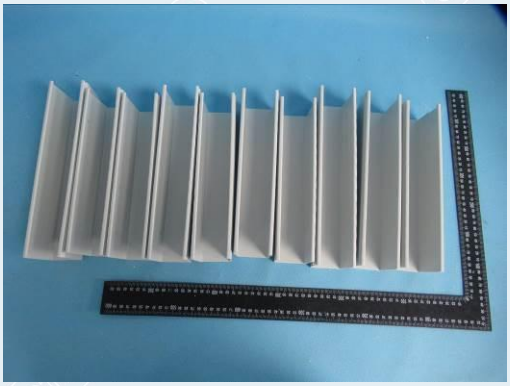
Photo of Sample	
	
Sample received (Front)	Sample received (Reverse)
	
After unpacking (Front)	After unpacking (Reverse)

----------End of Report----------

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