

TEST REPORT

No. CPSA/250253442-CB72592

REPORTED DATE: 11-MAR-2025

Job Ref. C&P/2025-02-21-019

WYNDOR SDN BHDNO. 11, JALAN TPP 14,
TAMAN PERINDUSTRIAN PUTRA,
LEBUHRAYA ELITE, 47130 PUCHONG,
SELANGOR

The following sample(s) was/were submitted and identified by/on behalf of applicant as:

Sample Description : ACOLA MULTI-LAYER HONEYCOMB
Sample Received : 21-Feb-2025
Testing Period : 21-Feb-2025 to 06-Mar-2025

Test Requested : Selected test(s) as requested by customer
Test Method : -PLEASE REFER TO NEXT PAGE(S)-
Test Results : -PLEASE REFER TO NEXT PAGE(S)-

SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD
TAY SIAM PINE
TECHNICAL MANAGER

IKM NO. M/3452/6047/11/12

Test Report Form No.: SGS/TR/CP/005, Ver: 2.0, Effective Date: 02/07/2021

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Test Part Description :

Sample Description: -PLEASE REFER TO PAGE 1-

Table 1: Test Information

Chamber Dimension, m	0.81 x 0.81 x 0.64
Chamber Volume, m ³	0.4
Sample Size, m	0.290m x 0.200m x 0.018m of 3 pieces
Number of Exposed Surface	18
Loading Factor (L), m ² /m ³	1.00
Temperature during measurement, °C	23±2°C
Humidity during measurement, %	50±5% RH

Table 2: Test Method Summary:

Test Parameter	Method	Adsorbent/Absorbent/ Trapping material	Sampling volume	Analysis method	Method detection limit
Total Volatile Organic Compounds (as toluene equivalent)	ISO 16000-6	Stainless steel tubes packed with Tenax TA/ Carbograph 1TD /Carboxen 1003 (Universal Air Tubes)	6L	Individual compound(s) elute in retention time window between hexane and hexadecane is being summed and quantified as toluene equivalent with GC-MS	5µg/m ³
Formaldehyde	ISO 16000-3	Cartridge packed with silica coated with 2,4-Dinitrophenylhydrazine (DNPH) reagent	60L	Reaction of formaldehyde with DNPH in the present of acid to form stable derivative and analyzed by HPLC-DAD.	5µg/m ³

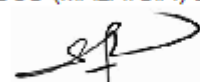

Sampling of VOC & formaldehyde were performed at 3rd day & 7th day.

The total amount of Volatile Organic Compounds (TVOC) was determined as sum of volatile organic compounds (VOCs), sampled on Tenax TA® and followed by subsequent desorption by means of Thermal desorption followed by Gas Chromatography Mass Spectrometry (GC-MS) detection. VOCs which elute between and including n-hexane and n-hexadecane on a non-polar capillary column are quantified by converting the total area of chromatogram in the analytical window to a nominal mass by using chromatographic response factor to toluene (Toluene equivalent).

Single VOC was identified by NIST Library matching and substance with quality >90 is then quantified as toluene equivalent. Identifications of the VOC are not confirmed by pure standard comparison. Only VOC present with concentration > 5µg/m³ is taken into consideration of calculation of TVOC.

For formaldehyde determination, cartridge is desorbed with acetonitrile and analyzed by High-Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD).

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Table 3: Concentration of Formaldehyde & single VOC compound as toluene equivalent in range of C₆-C₁₆ at 3rd day:

	CAS No	3 rd Days (µg/m ³)
Formaldehyde	50-00-0	N.D.
Sum of TVOC (as Toluene equivalent)	-	N.D.

Table 4: Concentration of Formaldehyde & single VOC compound as toluene equivalent in range of C₆-C₁₆ at 7th day:

	CAS No	7 th Days (µg/m ³)
Formaldehyde	50-00-0	N.D.
Sum of TVOC (as Toluene equivalent)	-	N.D.

Note: N.D.= Not Detected / Less than MDL-Method detection limit

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