

# TEST REPORT: 7191239555-CHM20-01-MA

Date: 21 JUL 2020

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## SUBJECT

Evaluation of "MICALITE DECORATIVE LAMINATE PANEL" Sample

## CLIENT

Micalite Pte Ltd  
67 Tampines Industrial Ave 5  
T5 @ Tampines  
528643  
Singapore

Attn: Mr. Dave Chew

## DESCRIPTION OF SAMPLE

Two pieces of board labelled as follow were received on 18 Jun 2020:

Sample Description	MICALITE DECORATIVE LAMINATE PANEL
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## DATE OF ANALYSIS

29 Jun 2020 – 14 Jul 2020



TÜV SÜD PSB

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## METHOD OF TEST

### 1. Emission Test

The following emission tests were conducted according to ASTM D5116-17 – *Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials / Products*, as reference.

#### 1) Total Volatile Organic Compounds (TVOC) Emission Rate

##### Emission Test Condition

- 1) Chamber Volume: about 1m<sup>3</sup>
- 2) Temperature: 23°C
- 3) Relative Humidity: 50%
- 4) Air Exchange Rate: n=1 (air change rate per hour in the chamber)
- 5) Chamber Loading Ratio: 0.4-1.0 m<sup>2</sup>/m<sup>3</sup> (total exposed surface area of the test specimen divided by the net air volume of the emission test chamber)
- 6) Air Velocity: 0.1 m/s to 0.3 m/s (over the surface of the test specimen)

## REMARKS

Product Loading Ratio for the "MICALITE DECORATIVE LAMINATE PANEL" sample was 0.4.

## RESULTS

Table 1. Total Volatile Organic Compounds (TVOC) Emission Rate Test Result

Sample	Test Result (After 192 hours)
MICALITE DECORATIVE LAMINATE PANEL	1.2 mg per m <sup>2</sup> per hour

<sup>a</sup> TVOC is the sum of volatile organic compounds sampled on the sorbent tube between n-hexane (C6) and n-hexadecane (C16), and quantified by converting the total area of the chromatogram in that region to Toluene concentration equivalent.



MS MARIANA AHMAD  
CHEMIST



DR XIAO ZHOU  
PRODUCT MANAGER  
MICROCONTAMINATION DIAGNOSIS  
CHEMICAL & MATERIALS

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