



TVOC TEST REPORT

Issue number	ZL5A-SA4H-HTJK
Item	Special purpose coating agent
Product Name	M9
Product Use	Coating solution for matte surface
Type	Liquid type
Volume	1L

The emission of volatile organic compounds from samples of building products and furnishing

Item	Unit	Limit of Quantification	Criterion	Result
Total Volatile Organic Compounds	mg/m ³	0.001	Less than 0.1	0.004
Benzene	mg/m ³	0.001	-	Less than 0.001
Toluene	mg/m ³	0.001	-	Less than 0.001
Ethyl benzene	mg/m ³	0.001	-	Less than 0.001
Xylene	mg/m ³	0.001	-	Less than 0.001
Styrene	mg/m ³	0.001	-	Less than 0.001
Formaldehyde	mg/m ³	0.001	-	Less than 0.001
Acetaldehyde	mg/m ³	0.001	-	Less than 0.001

NOTE) · mg/m³ · h : Area specific air flow rate(EFa)
· Test Details

Item	Details	
Test Temperature & Relative humidity	Temperature(°C) : (25.0 ± 0.2)	
	Relative humidity (%) : (50 ± 1)	
Surface Area & Product loading factor	Surface Area of Test sample(m ²) : 0.040 6	
	Product loading factor(m ² /m ³) : 2.0	
Sample collection and management	Sorbent Tubes	TVOC and 5 VOCs : Tenax-TA
		Aldehydes : DNPH Catridge
	Air collection Volume (L)	TVOC and 5 VOCs : 4.0
		Aldehydes : 6.0
	Chamber Emission Time(h) : (168 ± 2)	
	Testing Period : 2024.12.20. ~ 2024.12.27.	
	Air exchange rate(n/h) : (0.5 ± 0.05)	
Test Apparatus	Emission Chamber Size(L) : 20	
	Temperature and Humidity Control Device, Flow Meter, Air sampling Equipment : ADPAC system(JAPAN)	
	TVOC and 5 VOCs : ATD(PerkinElmer TurboMatrix ATD, USA) GC/MSD (Shimadzu, GC2010 Plus/QP2020)	
	Aldehydes : HPLC(Agilent 1290 Series, USA)	