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DOW SILICONES
TEST REPORT

SCOPE OF WORK
CDPH 01350 Standard Method Version 1.2 on Dowsil™ 121 Structural Glazing Sealant

REPORT NUMBER
105806919GRR-001h

ISSUE DATE
18-December-2024

PAGES
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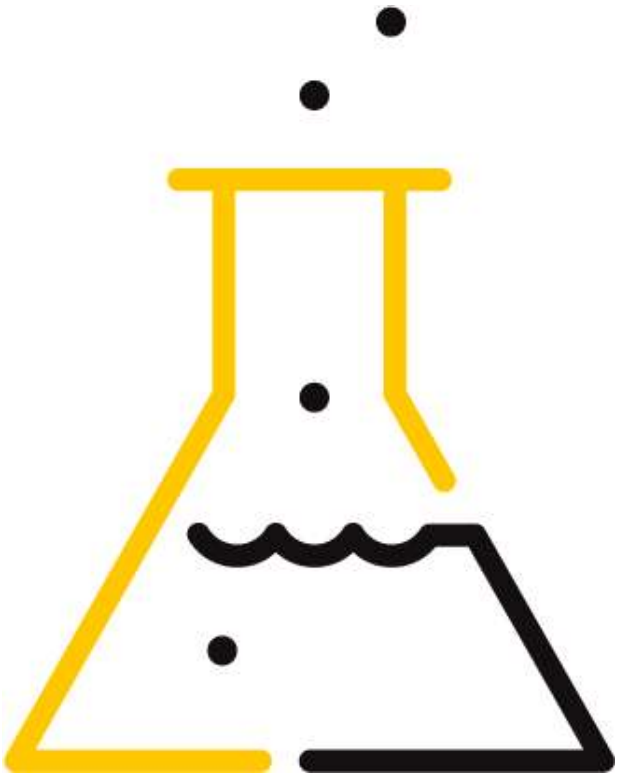
DOCUMENT CONTROL NUMBER
Per GRVOC-RT-050b (03-June-2024)



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TEST REPORT FOR DOW SILICONES CORPORATION

Report No.: 105806919GRR-001h
Date: 18-December-2024
P.O.: 4516032615

SECTION 1

CLIENT INFORMATION

Attention: Austin Hlinka
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Logan Albertson
Project Engineer

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Project Reviewer

SECTION 2
SUMMARY AND CONCLUSION

Test Method:	Standard Method Version 1.2 for CDPH 01350
Modeling Scenario:	Private office (PO), school classroom (SC) and single family residence (R)

CLIENT PROVIDED SAMPLE INFORMATION

Manufacturer / Location	Dow / Elizabethtown, KY
Product Name	Dowsil™ 121 Structural Glazing Sealant
Product Number	Not Specified
Product Description	Silicone sealant
Date of Manufacture	18-September-2024
Date of Collection	23-October-2024
Date of Shipment	23-October-2024

DESCRIPTION OF SAMPLES

Date Received by Lab	24-October-2024
As Received Sample Condition	Good Condition
Lab Sample ID	GRR2410240008
Material Submitted	Twelve (12) sealant cartridges

WORK REQUESTED/APPLICABLE DOCUMENTS

VOC Emissions Analysis:	CDPH Standard Method v1.2
Intertek Quote:	Qu-01430473

TEST RESULTS

CDPH Standard Method v1.2, Table 4.1

MODELING SCENARIO	RESULT (PASS/FAIL)
Private Office (PO)	**PASS**
School Classroom (SC)	**PASS**
Single Family Residence (R)*	**PASS**

*Note: The single family residence scenario is not yet a CDPH requirement. It is provided for informational purposes only.

LEED v4 Total Volatile Organic Compounds (TVOC)

MODELING SCENARIO	TVOC (mg m^{-3})
Private Office (PO)	**0.3**
School Classroom (SC)	**0.1**
Single Family Residence (R)*	**0.4**

*Note: The single family residence scenario is not yet a CDPH requirement. It is provided for informational purposes only.

SAMPLE DISPOSITION

At the completion of testing, samples were disposed of in a routine manner.

SECTION 3
CDPH STANDARD METHOD V1.2

Date Received:	24-October-2024
Dates Tested:	21-November-2024 to 05-December-2024

ACCEPTANCE CRITERIA:

Referencing:	CDPH Standard Method v1.2, Table 4.1 LEED v4 - Low Emitting Materials
LEED v4 - TVOC Ranges:	≤ 0.5 mg m^{-3} 0.5 to 5.0 mg m^{-3} ≥ 5.0 mg m^{-3}

TEST NOTES OR DEVIATIONS:

Testing performed without deviation.

TEST SUMMARY:

The emissions testing was performed according to "Standard Method for the Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers Version 1.2". A photograph of the tested sample is included herein. The sample was applied in a 3/8" wide aluminum channel and placed into the test chamber with the top surface exposed. The sample was conditioned inside of the test chamber at 23 ± 2°C and 50 ± 10% RH. Air samples were collected prior to the sample being placed in the test chamber (0 hours) and at 264, 288, and 336 hours after preparation. Samples analyzed for individual VOCs and TVOC were collected on multi-sorbent tubes containing glass wool, Tenax TA 35/60 and Carbograph 5 TD 40/60. These VOC samples were analyzed by thermal desorption-gas chromatography/mass-spectrometry, TD-GC/MS. TVOC was calculated through integration of the chromatogram from n-pentane through n-heptadecane using toluene as a surrogate. Individual VOCs were calculated using calibration curves based on pure standards unless otherwise noted. Samples analyzed for low molecular weight aldehydes were collected on cartridges treated with 2,4-di-nitrophenylhydrazine (DNPH). Low molecular weight aldehydes were analyzed using high performance liquid chromatography, HPLC.

Table 1: Conditioning and test timing

EXPERIMENT PHASE	START DATE	DURATION
Conditioning	21-November-2024	10 Days
Chamber Testing	01-December-2024	4 Days