

# 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

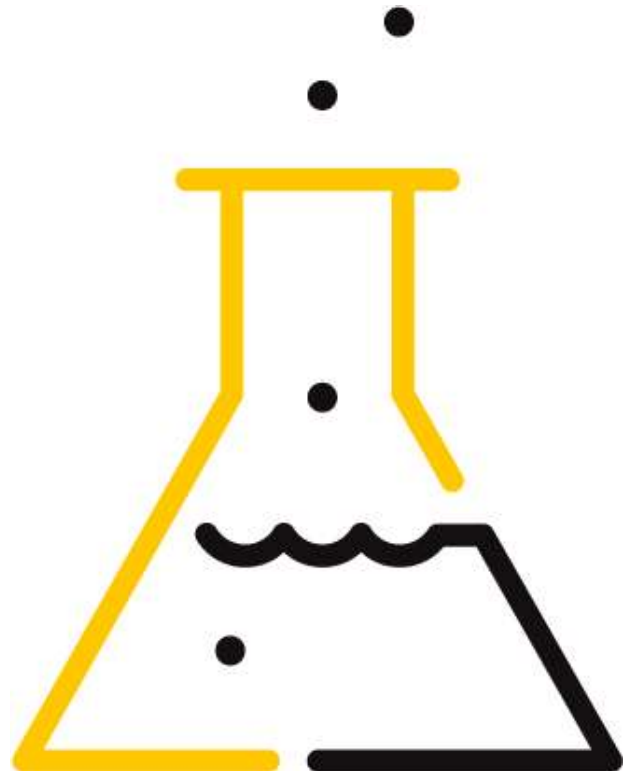
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**DOCUMENT CONTROL NUMBER**

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  
Dow Silicones Corporation  
2200 W Salzburg Road  
Auburn, MI 48686  
Phone: +1 (989) 324-1716  
Email: Ahlinka@dow.com



**Logan Albertson**  
Project Engineer



**Taylor Gebben**  
Project Reviewer

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**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 <sup>-3</sup> )
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:  $\leq 0.5 \text{ mg m}^{-3}$   
 $0.5 \text{ to } 5.0 \text{ mg m}^{-3}$   
 $\geq 5.0 \text{ mg m}^{-3}$

**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  $23 \pm 2^\circ\text{C}$  and  $50 \pm 10\%$  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-dinitrophenylhydrazine (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