

DOW SILICONES TEST REPORT

SCOPE OF WORK

CDPH 01350 Standard Method Version 1.2 on Dowsil™ 790 Silicone Building Sealant

REPORT NUMBER

105806919GRR-001c

ISSUE DATE

25-November-2024

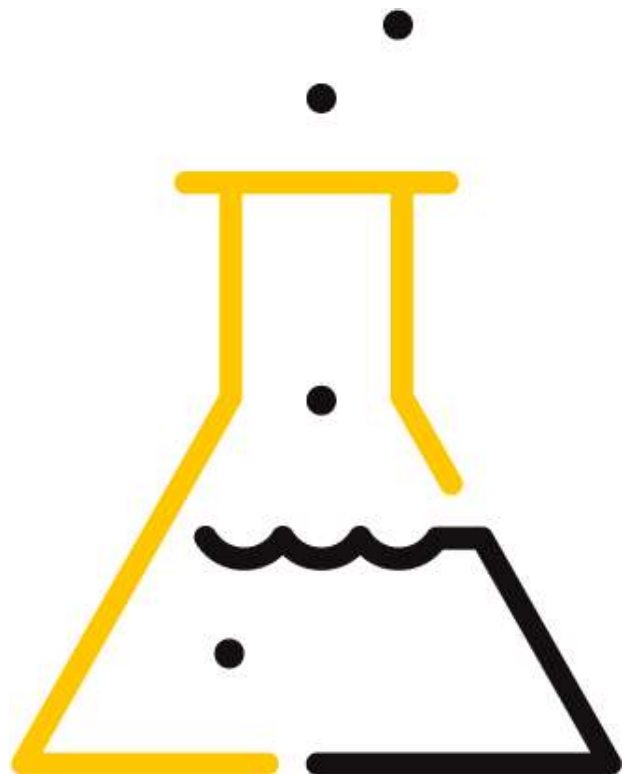
PAGES

12

DOCUMENT CONTROL NUMBER

Per GRVOC-RT-050b (03-June-2024)

© 2024 INTERTEK



TEST REPORT FOR DOW SILICONES CORPORATION

Report No.: 105806919GRR-001c

Date: 25-November-2024

P.O.: 4516032615

Telephone: +1 616 656 7401
www.intertek.com

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

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program. Unless called out differently in the test method/standard, a simple acceptance decision rule will apply to all statements of conformities in this report.

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™ 790 Silicone Building Sealant
Product Number	Not Specified
Product Description	Silicone sealant
Date of Manufacture	09-August-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	GRR2410240008-1
Material Submitted	Twelve (12) sealant cartridges

WORK REQUESTED/APPLICABLE DOCUMENTS

VOC Emissions Analysis:	CDPH Standard Method v1.2
Intertek Quote:	Qu-01430473-1

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)	0.4
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: 31-October-2024 to 14-November-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	31-October-2024	10 Days
Chamber Testing	10-November-2024	4 Days