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DOW SILICONES CORPORATION
TEST REPORT

SCOPE OF WORK
ASTM C1184 EVALUATION OF DOWSIL™ 795 SILICONE BUILDING SEALANT

REPORT NUMBER
S5951.01-106-31 R0

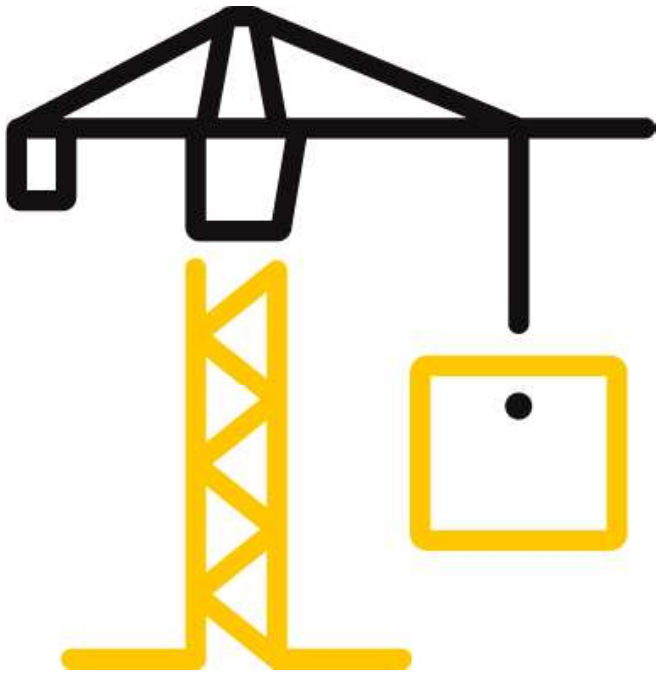
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Report No.: S5951.01-106-31 R0
Date: 05/19/26

REPORT ISSUED TO
DOW SILICONES CORPORATION
2200 West Salzburg Road
Auburn, Michigan 48611

SECTION 1
SCOPE

Product: DOWSIL™ 795 Silicone Building Sealant

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Dow Silicones Corporation to evaluate DOWSIL™ 795 Silicone Building Sealant in general accordance with ASTM C1184. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

For INTERTEK B&C:

COMPLETED BY:	Michael S. Peters	**REVIEWED BY:**	Joshua A. Kennedy
TITLE:	Technician I Materials Laboratory	**TITLE:**	Technician Team Lead Materials Laboratory
SIGNATURE:	Michael S. Peters Digitally Signed by: Michael S. Peters	**SIGNATURE:**	Joshua A Kennedy Digitally Signed by: Joshua Kennedy
DATE:	05/19/26	**DATE:**	05/19/26

MSP:jak/jlc/alb

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SECTION 2
SUMMARY OF TEST RESULTS

TEST	REQUIREMENT	RESULT
ASTM C639 - Rheological Flow 4.4±2°C (40±3.6°F)	Vertical: ≤3/16 in. Horizontal: no deformation	Vertical: 0 in. Horizontal: no deformation
ASTM C639 - Rheological Flow 50±2°C (122±3.6°F)	Vertical: ≤3/16 in. Horizontal: no deformation	Vertical: 0 in. Horizontal: no deformation
ASTM C603 - Extrudability	≤10 seconds	2 seconds
ASTM C661 - Hardness	20-60	50
ASTM C792 - Heat Aging	≤10% weight loss	2.74%
ASTM C679 - Tack-Free Time	≤3 hours (180 minutes)	150 minutes
ASTM C1135 - Tensile Adhesion	Standard Conditions: ≥50 psi	75.8 psi
ASTM C1135 - Tensile Adhesion	88°C (190°F): ≥50 psi	64.6 psi
ASTM C1135 - Tensile Adhesion	-29°C (-20°F): ≥50 psi	86.1 psi
ASTM C1135 - Tensile Adhesion	Water Immersion: ≥50 psi	71.8 psi
ASTM C1135 - Tensile Adhesion	UV Exposure: ≥50 psi	64.9 psi

SECTION 3
TEST METHODS

The specimens were evaluated in general accordance with the following:

ASTM C1184-23, *Standard Specification for Structural Silicone Sealants*, Sections 8.1-8.6

ASTM C639-24, *Standard Test Method for Rheological (Flow) Properties of Elastomeric Sealants*

ASTM C603-14 (Reapproved 2026), *Standard Test Method for Extrusion Rate and Application Life of Elastomeric Sealants*

ASTM C661-15 (Reapproved 2022), *Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer*

ASTM C792-23, *Standard Test Method for Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants*

ASTM C679-15 (Reapproved 2022), *Standard Test Method for Tack-Free Time of Elastomeric Sealants*

ASTM C1135-19 (Reapproved 2024), *Standard Test Method for Determining Tensile Adhesion Properties of Structural Sealants*

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SECTION 4
MATERIAL SOURCE

The materials were selected at Dow Silicones Corporation located in Midland, Michigan and specimen preparation was witnessed by Intertek B&C personnel. Batch numbers for DOWSIL™ 795 Silicone Building Sealant; LOT: H050P1J019; Expiration Date: 16JAN2026 color White.

Refer to the product description photo in Section 10. The material was tested as received, except for preparing test specimens from the original material. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 5
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Austin Hlinka	Dow Silicones Corporation
Joseph M. Brickner	Intertek B&C
Michael S. Peters	Intertek B&C
Joshua A. Kennedy	Intertek B&C

SECTION 6
TEST PROCEDURES

All conditioning of test specimens and test conditions were at standard laboratory conditions, unless otherwise reported. Refer to the test related photos in Section 10. Calibration certificates are available upon request.

ASTM C639 - Rheological Flow
The sealant was determined to be Type II based on the guidelines of ASTM C639. Two stainless steel channels open on the ends (vertical testing) and two stainless steel channels closed on the ends (horizontal testing) were filled with sealant. One channel was placed vertically, and one channel was placed horizontally into a refrigerator maintained at 4.4±2°C (40±3.6°F) for a period of 4 hours. One channel was placed vertically, and one channel was placed horizontally into an oven maintained at 50±2°C (122±3.6°F) for a period of 4 hours. At the end of the 4-hour period, the specimens were removed from their conditioning chambers and observed for any flow on the lower edge.

ASTM C603 - Extrudability
A 177-mL (6-fl oz) cartridge was filled with the sealant and then placed into a pneumatic dispenser which expelled the sealant with 50 psi of pressure out the end of the cartridge with no nozzle. The rate of extrusion was determined.

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ASTM C661 - Hardness
Two specimens were prepared by filling a brass frame of internal dimensions measuring 5 in. x 1-1/2 in. x 1/4 in. on top of anodized aluminum plates. The frame was removed, and the sealant was allowed to cure for 14 days at standard laboratory conditions. A Shore "A" durometer (ICN: INT00287) was applied to the surface of each sealant pad with a force of three pounds. The instantaneous hardness reading was measured and recorded. Two additional readings were taken on each sealant pad for a total of six readings.

ASTM C792 - Heat Aging
Specimens were prepared by filling a brass frame of internal dimensions measuring 5 in. x 1-1/2 in. x 1/4 in. on top of anodized aluminum plates. Before preparing a specimen, the aluminum plate was weighed on a digital balance (ICN:003449). The aluminum plate and the fresh sealant were weighed using the same balance immediately after removing the brass frame. Specimens were allowed to cure for 7 days at standard laboratory conditions. Following the cure period, Specimens 1 and 2 were placed into a forced-draft oven (ICN: Y002568) maintained at 70±2°C (158±3.6°F) for 21 days while Specimen 3 was maintained at laboratory conditions. Specimens were allowed to cool to standard conditions, then re-weighed on a digital balance (ICN:003449) to determine a percentage of mass loss.

ASTM C679 - Tack-Free Time
Pads of sealant were prepared by filling a brass frame of internal dimensions measuring 5 in. x 1-1/2 in. x 1/4 in. on top of anodized aluminum plates. Upon completion of the first sealant pad, a timer was started. The tack-free time was tested using polyethylene strips and a 30-g weight with dimensions 1-5/8 in. x 3/4 in. every minute for the first 10 minutes, followed by every two minutes for the next 10 minutes, and every five minutes for the remainder of the test. The polyethylene strip was placed on the sealant pad and the 30-g weight placed on top for 30 seconds. After 30 seconds the weight was removed, and the polyethylene strip was peeled away from the sealant at a 90° angle. The test continued until no sealant adhered to the polyethylene strip when peeled away from the sealant.

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ASTM C1135 - Tensile Adhesion

Specimens were prepared filling a 2 in. long x 3/8 in. wide x 1/2 in. deep cavity between two pieces of float glass with sealant. The specimens were cured for 21 days at standard laboratory conditions before groups of five specimens were subjected to one of the following conditions immediately prior to testing:

- Standard Laboratory Conditions
- 1 hour at 88±5°C (190±10°F) in an oven (ICN: INTY002567) and tested at the same temperature
- 1 hour at -29±2°C (-20±4°F) in a freezer (ICN: INT000208) and tested at the same temperature
- 7 days of immersion in deionized water and tested within 10 minutes of removal from water
- 5,000 hours of light exposure in a QUV/Se accelerated weathering chamber (ICN: INT00380) in accordance with ASTM C1442-14 (Reapproved 2021), Section 7.3 with bond surface facing the light source

The conditioned specimens were mounted to an Instron UTM (ICN: 005740) equipped with a 500N load cell (ICN: 01424) and pulled in tension at a crosshead movement speed of 0.5 in/min until failure occurred. Specimen dimensions were measured using a digital caliper (ICN: INT03278).

SECTION 7
TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS
ASTM C639	4	6" x 3/4" x 1/2" deep
ASTM C603	1	177 mL
ASTM C661	2	5" x 1-1/2" x 1/4" thick
ASTM C792	2 and 1 Control	5" x 1-1/2" x 1/4" thick
ASTM C679	1	5" x 1-1/2" x 1/4" thick
ASTM C1135	5 per condition	2" x 1/2" x 3/8" wide

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SECTION 8
TEST RESULTS

ASTM C639 - Rheological Flow

SPECIMEN	FLOW (in)
4.4±2°C (40±3.6°F) Vertical	0
4.4±2°C (40±3.6°F) Horizontal	No deformation
50±2°C (122±3.6°F) Vertical	0
50±2°C (122±3.6°F) Horizontal	No deformation

ASTM C603 - Extrudability

SPECIMEN WEIGHT (mL)	TIME (sec)
177	2

ASTM C661 - Hardness

READING	SPECIMEN 1	SPECIMEN 2
1	49	49
2	50	50
3	50	50
Average	**50**	

ASTM C792 - Heat Aging

SPECIMEN	WEIGHT OF ALUMINUM PLATE (g)	WEIGHT OF ALUMINUM PLATE WITH FRESH SEALANT (g)	WEIGHT OF ALUMINUM PLATE WITH AGED SEALANT (g)	WEIGHT LOSS (%)	PRESENCE OF CRACKING OR CHALKING
1	22.05	63.30	62.19	2.71	0 - No cracking or chalking
2	22.03	63.03	61.89	2.77	
Average	**22.04**	**63.17**	**62.04**	**2.74**	

ASTM C679 - Tack-Free Time

TACK FREE TIME (min)
150

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ASTM C1135 - Tensile Adhesion - Ambient Condition

SPECIMEN	TENSILE STRENGTH (psi)
1	74.8
2	73.7
3	76.7
4	77.7
5	76.0
Average	**75.8**

ASTM C1135 - Tensile Adhesion - 1 Hour at 88°C

SPECIMEN	TENSILE STRENGTH (psi)
1	68.3
2	57.4
3	70.4
4	69.7
5	57.2
Average	**64.6**

ASTM C1135 - Tensile Adhesion - 1 Hour at -29°C

SPECIMEN	TENSILE STRENGTH (psi)
1	76.0
2	90.4
3	93.4
4	86.0
5	84.5
Average	**86.1**

ASTM C1135 - Tensile Adhesion - Water Immersion

SPECIMEN	TENSILE STRENGTH (psi)
1	82.9
2	64.4
3	73.2
4	72.2
5	66.3
Average	**71.8**

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ASTM C1135 - Tensile Adhesion - QUV Weathering

SPECIMEN	TENSILE STRENGTH (psi)
1	68.1
2	67.8
3	60.1
4	68.7
5	59.8
Average	**64.9**

SECTION 9
CONCLUSION

The DOWSIL™ 795 Silicone Building Sealant met the specified performance requirements listed in ASTM C1184 for the testing performed in this report

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SECTION 10
PHOTOGRAPHS



Photo No. 1
DOWSIL™ 795 Silicone Building Sealant - As Received

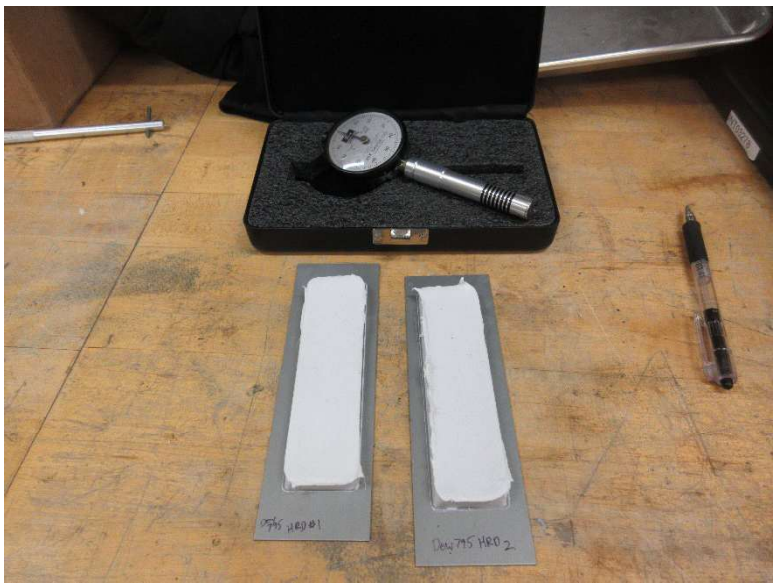


Photo No. 2
ASTM C661 Harness Testing Specimens

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Photo No. 3
ASTM C792 Heat Aging Specimen Conditioning



Photo No. 4
ASTM C679 Tack-Free Time Specimen Testing

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Photo No. 5
ASTM C1135 Test Setup

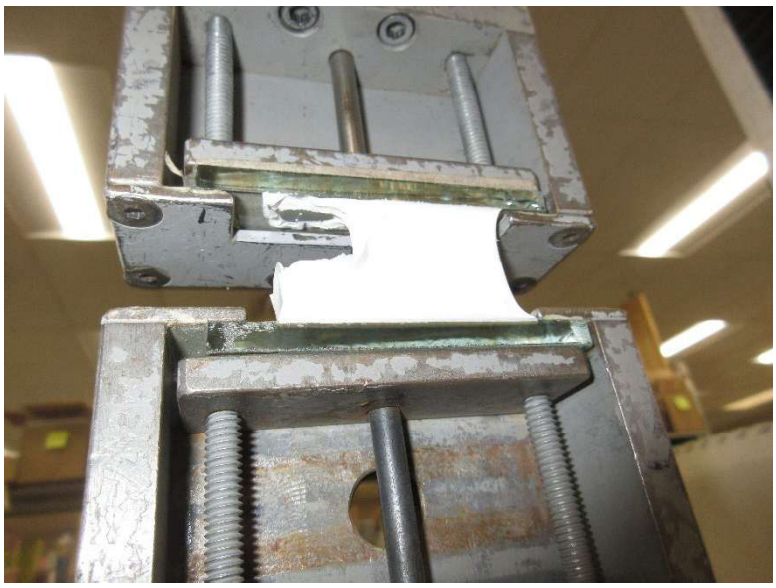


Photo No. 6
ASTM C1135 Typical Specimen of Dowsil 795

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Photo No. 7
Dowsil 795 Immersion Specimens for ASTM C1135



Photo No. 8
ASTM C1135 Typical Immersion Specimen Testing

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SECTION 11
REVISION LOG

REVISION #	DATE	PAGES	REVISION
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