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DOW SILICONE CORPORATION
TEST REPORT

SCOPE OF WORK
ASTM C1184 SEALANT EVALUATION OF DOWSIL® 995 SILICONE STRUCTURAL SEALANT

REPORT NUMBER
N7629.02-106-31 R0

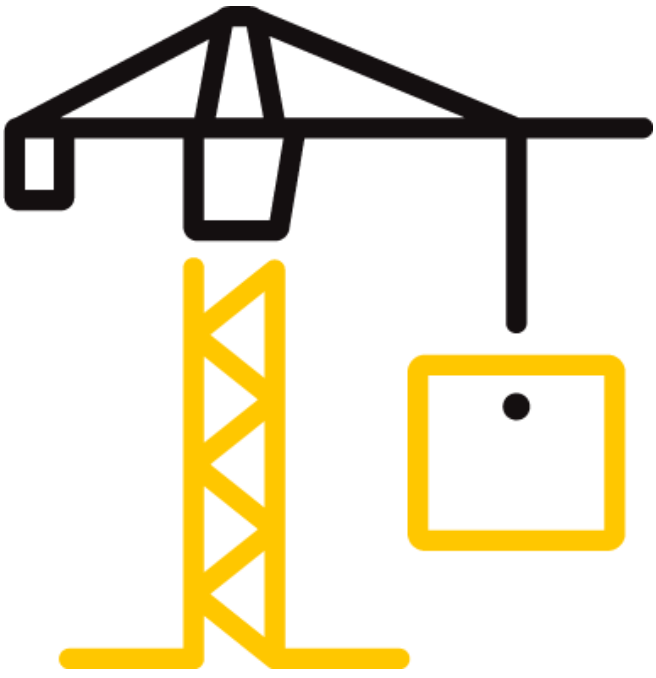
TEST DATES
07/19/22 - 02/20/23

ISSUE DATE
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02/20/27

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Report No.: N7629.02-106-31 R0
Date: 04/03/23

REPORT ISSUED TO

DOW SILICONES CORPORATION
2200 West Salzburg Road
Auburn, Michigan 48611

SECTION 1

SCOPE

Product: DOWSIL® 995 Silicone Structural Sealant

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted Dow Silicone Corporation to evaluate DOWSIL® 995 Silicone Structural Sealant in accordance with ASTM C1184 for sealant properties. 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:	Joshua A. Kennedy	**REVIEWED BY:**	Joseph M. Brickner
TITLE:	Technician III Materials Laboratory	**TITLE:**	Laboratory Supervisor Materials Laboratory
SIGNATURE:	Joshua A Kennedy Digitally Signed by: Joshua Kennedy	**SIGNATURE:**	Joseph M. Brickner Digitally Signed by: Joseph M. Brickner
DATE:	04/03/23	**DATE:**	04/03/23

JAK:jmb/kae

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SECTION 2
SUMMARY OF TEST RESULTS

PROCEDURE	PROPERTY	REQUIRED	RESULTS	OUTCOME
ASTM C603	Extrusion Rate	≤10 seconds	2.5 seconds	PASS
ASTM C661	Hardness	20 to 60	36	PASS
ASTM C792	Heat Resistance	≤10% mass loss; no cracking or chalking	1.7% mass loss; no cracking or chalking	PASS
ASTM C679	Tack-Free Time	No tack at 3 hours	No tack at 2.25 hours	PASS
ASTM C1135	Tensile Adhesion	≥345 kPa	Control: 962 kPa	PASS
			@ 88°C: 675kPa	PASS
			@ -29°C: 1,230 kPa	PASS
			Water: 1,040 kPa	PASS
			UV: 863 kPa	PASS

SECTION 3
TEST METHODS

The specimens were evaluated in accordance with the following:

ASTM C1184-18$^{\varepsilon 1}$, *Standard Specification for Structural Silicone Sealants*, Sections 8.2-8.6

ASTM C603-14 (Reapproved 2019), *Standard Test Method for Extrusion Rate and Application Life of Elastomeric Sealants Title,* Publication Information if applicable

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

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

ASTM C1442-14 (Reapproved 2021), *Standard Practice for Conducting Tests on Sealants Using Artificial Weathering Apparatus*

ASTM C1135-19, *Standard Test Method for Determining Tensile Adhesion Properties of Structural Sealants*, Publication Information if applicable

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SECTION 4
MATERIAL SOURCE

The DOWSIL® 995 Silicone Structural Sealant materials were selected by APL Logistics personnel on behalf of Dow Silicone Corporation. The materials were sampled after production and tagged prior to shipment on 05/10/2022. The following was received in type condition on 05/12/22:

- Twenty-four (24), 10.3-oz tubes of grey sealant labelled as Lot #4007113, Batch H050M4E024, Exp. Date 10/06/23.

Refer to the product description photos in Section 10. The materials were tested as received, except for preparing and curing test specimens from the original materials. 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
Joshua A. Kennedy	Intertek B&C
Joseph M. Brickner	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 photos in Section 10 and datasheets in Section 11. Calibration certificates are available upon request.

ASTM C603 - Extrusion Rate
The extrusion rate of the sealant was determined utilizing an air-supplied caulk gun pressurized to 50 psi. 6-oz polyethylene cartridges were filled with sealant and extruded at 50 psi into a pre-weighed container, and the extrusion time was measured with a digital timer (ICN: INT00341). The weight of the extruded sealant was determined utilizing a Mettler Toledo Balance (ICN: 65216).

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Date: 04/03/23

ASTM C661 - Hardness
The hardness of the sealant was determined utilizing a Shore A Durometer (ICN: INT00287). Specimens were prepared in the brass frames with internal dimensions of 5-inch by 1.5-inch by 0.25-inch and cured for 7 days at standard condition, 7 days at 100°F and 95% humidity, and 7 days at standard conditions for a total of 21 days. For each hardness reading, 3 lb_f was applied and an instantaneous reading was recorded at six equally spaced regions.

ASTM C792 - Heat Aging
The effects of heat aging of the sealants for weight loss, cracking, and chalking were determined utilizing a Blue M oven (ICN: Y002764) to condition specimens for 21 days at 70°C. Four specimens were prepared in the brass frames with internal dimensions of 5-inch by 1.5-inch by 0.25-inch on a pre-weighed 6-inch by 2-inch aluminum substrate. The wet specimens were weighed, cured at standard laboratory conditions for 7 days and weighed, two specimens were exposed to 70°C air in a Blue M oven (ICN: Y002764) for 21 days, and all three specimens were weighed after a total of 28 days. All weights were measured with a Mettler Toledo Balance (ICN: 65216). Temperatures were monitored with an Omega thermocouple reader (ICN: INT01294).

ASTM C679 - Tack-Free Time
The tack-free time of the sealants was determined utilizing brass frames, polyethylene strips, and a 30-gram weight. Two specimens were prepared in the brass frames with internal dimensions of 5-inch by 1.5-inch by 0.25-inch. The timer was started as soon as the specimens were prepared. At the standard intervals, a one-inch wide polyethylene strip was placed over the specimens with a 30-gram weight with a contact surface area of 1.625-inch by 0.75 inch. After 30 seconds, strip was removed at a 90° angle and evaluated for sealant pick-up.

ASTM C1442 - UV Resistance
The resistance of the sealant to weathering was determined utilizing a Q-Lab Accelerated Weathering Machine Model QUV/se (ICN: INT00386) equipped with UVA 340 lamps. The weathering conditions consisted of a repeating exposure cycle of 0.89 $W/(m^2 \cdot nm)$ at 340 nm irradiance at 60°C for eight hours followed by condensation at 50°C for four hours for a total exposure time of 5,000 hours. After exposure, specimens were evaluated for tensile adhesion.

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ASTM C1135 - Tensile Adhesion

The tensile bond strength of the sealant applied to glass was determined utilizing a SATEC Model 50UD UTM (ICN: Y002011) equipped with a 500-lb_f load cell (ICN: INT02893) and operating at a crosshead speed 0.50 in/min for the control, cold, hot, and water exposure specimens, and an Instron Model 3369 UTM (ICN: 005740) equipped with a 2.0-kN load cell (ICN: 005742) and operating at a crosshead speed of 0.50 in/min. A total of 25 specimens were prepared by adhering sealant between two plates of glass in the dimension of 2.0-inch long by 0.5-inch deep by 0.375-inch wide and cured for 21 days at standard conditions. Five of each specimen were held as control, conditioned for one hour at 88°C, conditioned at -29°C, immersed in deionized water for seven days, and exposed to UV weathering in accordance with ASTM D1442 for 5000 hours. Each glass substrate was held in metal grips and pulled in tension until a failure mode occurred. Dimensions were measured with a fowler digital caliper (ICN: INT01066).

SECTION 7
TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
ASTM C603	2	6 oz	Liquid Sealant
ASTM C661	2	5 x 1.5 x 0.25 inch	Cured Sealant
ASTM C792	3	5 x 1.5 x 0.125 inch	Cured Sealant
ASTM C679	2	5 x 1.5 x 0.125 inch	Cured Sealant
ASTM C1135	25, 5 each condition	2 x 0.5 x 0.375 inch	Cured Sealant

SECTION 8
TEST RESULTS

ASTM C603 - Extrusion Rate

SPECIMEN NO.	TIME (s)	MASS (g)	OBSERVATIONS
1	2.57	223.188	Steady Stream
2	2.44	223.123	Steady Stream
Average	**2.51**	**223.156**	

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Date: 04/03/23

ASTM C661 - Hardness

SPECIMEN NO.	SHORE A MEASUREMENTS					
	1	2	3	4	5	6
1	35	36	36	36	36	37
2	36	36	36	37	36	36
Average						**36**

ASTM C792 - Heat Aging

SPECIMEN NO.	PANEL WEIGHT (g)	PANEL AND SEALANT WEIGHT (g)		WEIGHT LOSS (%)	RATING, OBSERVATIONS
		INITIAL	FINAL		
Control	22.183	39.801	39.572	1.300	0 – no changes
1	22.238	39.147	38.862	1.685	0 – no changes
2	22.232	41.191	40.866	1.714	0 – no changes
Average				**1.700**	

ASTM C679 - Tack-Free Time

SPECIMEN NO.	TACK-FREE TIME (hr)	OBSERVATIONS
1	2.25	No residue pickup
	24	No residue pickup
2	2.25	No residue pickup
	24	No residue pickup

ASTM C1135 - Tensile Adhesion

Control

SPECIMEN NO.	AREA (mm^2)	PEAK LOAD (N)	TENSILE STRENGTH (kPa)	ELONGATION (%)	COHESIVE FAILURE
1	629	651	1,040	281.0	100%
2	629	537	854	335.6	100%
3	634	587	927	332.0	100%
4	631	670	1,060	233.1	100%
5	635	591	931	218.0	100%
Average	**631**	**607**	**962**	**279.9**	**100%**

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88°C

SPECIMEN NO.	AREA (mm^2)	PEAK LOAD (N)	TENSILE STRENGTH (kPa)	ELONGATION (%)	COHESIVE FAILURE
1	640	436	681	109.9	100%
2	645	435	674	118.1	100%
3	640	424	662	151.9	100%
4	644	420	652	120.8	100%
5	640	451	705	116.5	100%
Average	**642**	**433**	**675**	**123.5**	**100%**

29°C

SPECIMEN NO.	AREA (mm^2)	PEAK LOAD (N)	TENSILE STRENGTH (kPa)	ELONGATION (%)	COHESIVE FAILURE
1	647	758	1,170	271.8	100%
2	634	785	1,240	273.4	100%
3	629	738	1,170	288.4	100%
4	634	784	1,240	257.4	100%
5	625	843	1,350	299.4	100%
Average	**634**	**782**	**1,230**	**278.1**	**100%**

Water-Immersed

SPECIMEN NO.	AREA (mm^2)	PEAK LOAD (N)	TENSILE STRENGTH (kPa)	ELONGATION (%)	COHESIVE FAILURE
1	636	683	1,070	348.0	100%
2	644	656	1,020	242.2	100%
3	650	682	1,050	298.7	100%
4	636	695	1,090	308.7	100%
5	637	609	955	187.2	100%
Average	**641**	**665**	**1,040**	**277.0**	**100%**

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UV

SPECIMEN NO.	AREA (mm^2)	PEAK LOAD (N)	TENSILE STRENGTH (kPa)	ELONGATION (%)	COHESIVE FAILURE
1	602	499	829	254.8	100%
2	618	595	963	217.4	100%
3	606	530	875	242.2	100%
4	617	507	821	262.8	100%
5	597	494	829	201.7	100%
Average	**608**	**525**	**863**	**235.8**	**100%**

SECTION 9
CONCLUSION

The DOWSIL® 995 Silicone Structural Sealant met the specified performance requirements listed in ASTM C1135 for Sections 8.2-8.6 for the testing contained in this report.

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SECTION 10
PHOTOGRAPHS



Photo No. 1
Material - As Received



Photo No. 2
Sealant Detail

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Photo No. 3
Typical Extrudability Test In-Progress Detail



Photo No. 4
Hardness Specimen Detail

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Photo No. 5
Typical Hardness Test In-Progress Detail



Photo No. 6
Heat Aging Specimen Detail

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Photo No. 7
Typical Tack-Free Time Test In-Progress Detail

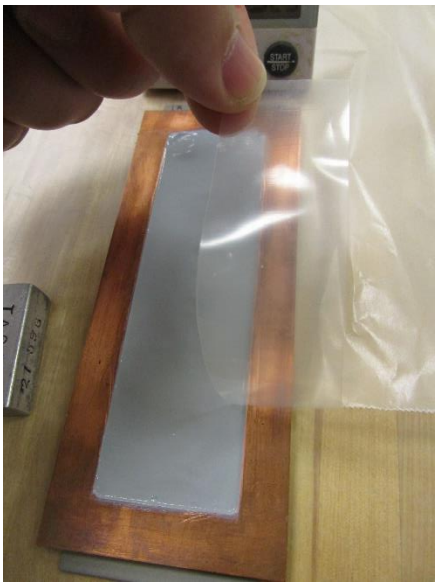


Photo No. 8
Typical Tack Free Detail

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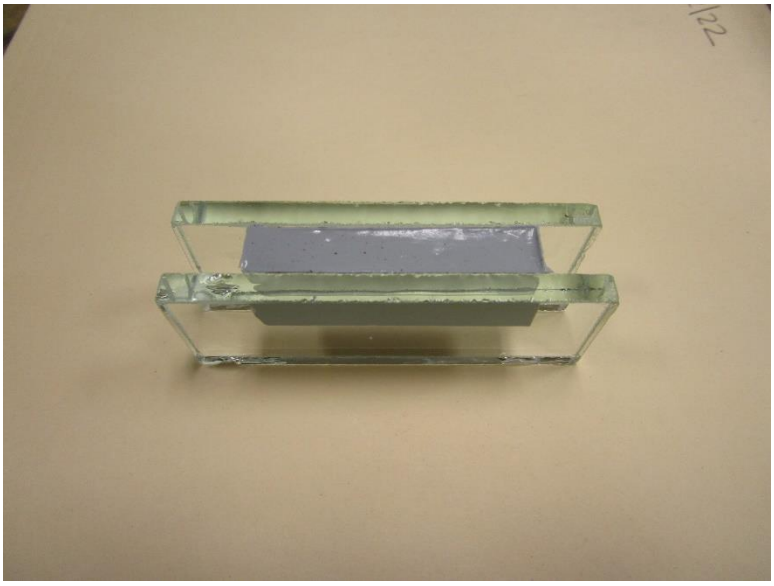


Photo No. 9
Typical Tensile Adhesion Specimen Detail

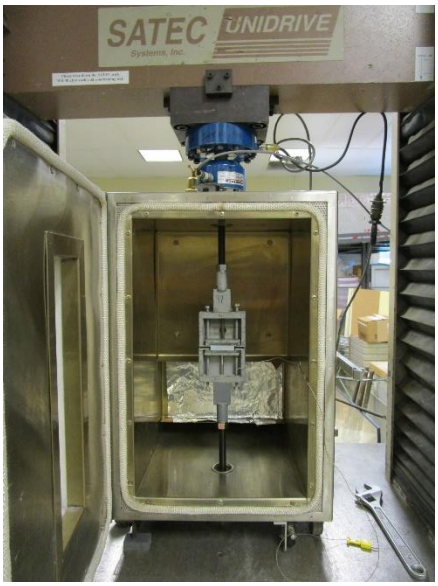


Photo No. 10
Typical Tensile Adhesion Test Setup Detail

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Photo No. 11
Typical Tensile Adhesion Test In-Progress Detail

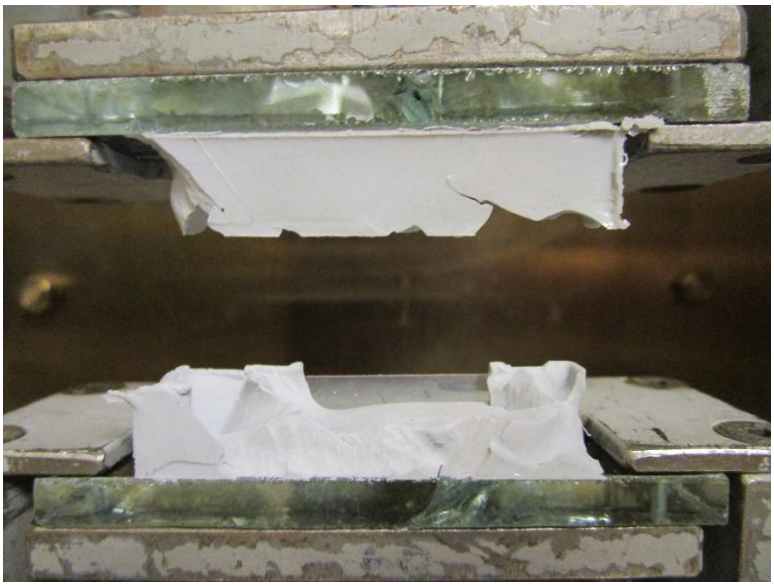


Photo No. 12
Typical Tensile Failure Mode Detail

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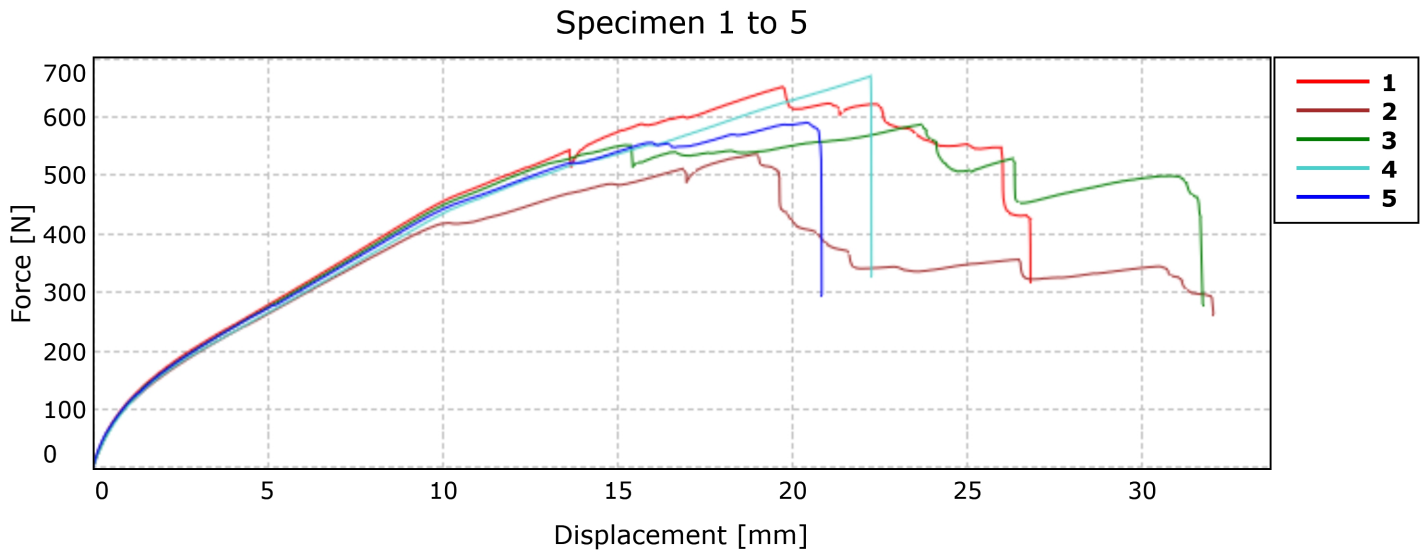
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SECTION 11
DATA SHEETS

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ASTM C1135, STM for Determining Tensile Adhesion Properties of Structural Sealants

Intertek-ATI Project #	N7629.02-106-31
Client Name	Dow Silicones Corporation
Sample Description	DOWSIL 995
Test Speed	0.50 in/min
Caliper ICN	INT01131
Lab Conditions	69.9°F / 45.1% RH
Lab Condition Sensor ICN	63311
Test Frame / ICN	Satec / Y002011
Load Cell Capacity / ICN	500 lb / INT02893
Test Frame Calibration Due Date	06/2023
Load Cell Calibration Due Date	06/2023
Technician	Josh K.



	Specimen	Initial Width [mm]	Depth [mm]	Length [mm]	Area [mm^2]	Ultimate Elongation [%]	Cohesive Failure
1	C-1	9.54	12.43	50.59	629	281.0	100%
2	C-2	9.55	12.46	50.47	629	335.6	100%
3	C-3	9.56	12.51	50.64	634	332.0	100%
4	C-4	9.55	12.49	50.54	631	233.1	100%
5	C-5	9.56	12.57	50.48	635	218.0	100%
Mean		9.55	12.49	50.54	631	279.9	

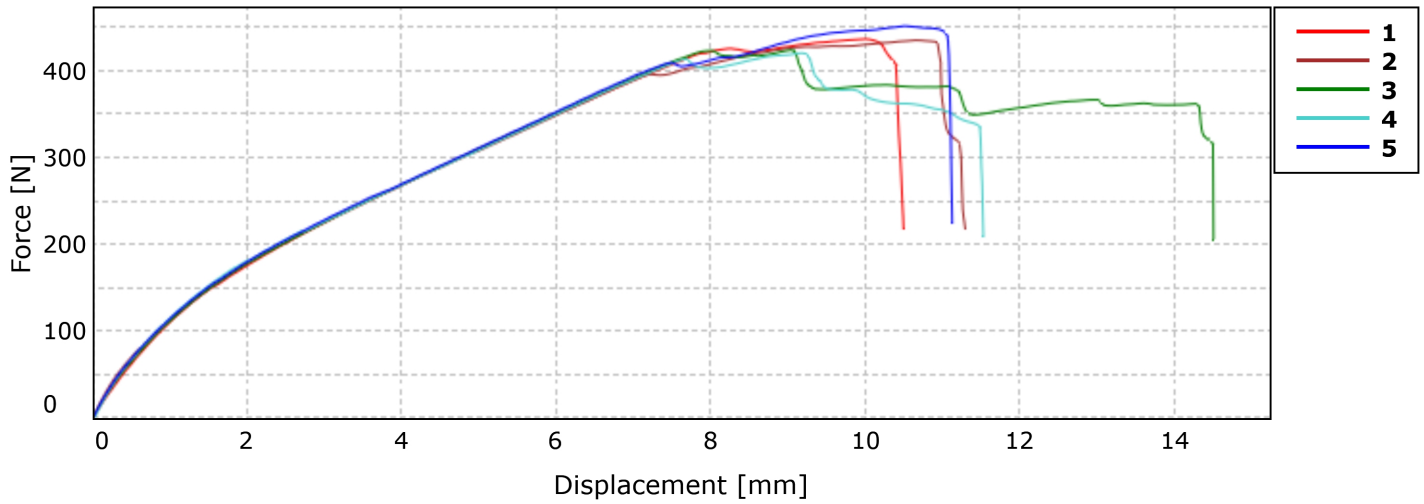
	Specimen	Load at Maximum Elongation [N]	Tensile stress at 10% Elongation [kPa]	Tensile stress at 25% Elongation [kPa]	Tensile stress at 50% Elongation [kPa]	Tensile stress at 100% Elongation [kPa]	Peak Load [N]	Tensile Strength [kPa]
1	C-1	318	174	293	429	700	651	1040
2	C-2	262	165	276	406	648	537	854
3	C-3	279	167	285	420	685	587	927
4	C-4	328	162	278	408	664	670	1060
5	C-5	295	169	284	418	674	591	931
Mean		296	168	283	416	674	607	962

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ASTM C1135, STM for Determining Tensile Adhesion Properties of Structural Sealants

Intertek-ATI Project #	N7629.02-106-31
Client Name	Dow Silicones Corporation
Sample Description	DOWSIL 995, 88°C Air Exposure
Test Speed	0.50 in/min
Caliper ICN	INT01131
Lab Conditions	69.9°F / 45.1% RH
Lab Condition Sensor ICN	63311
Test Frame / ICN	Satec / Y002011
Load Cell Capacity / ICN	500 lb / INT02893
Test Frame Calibration Due Date	06/2023
Load Cell Calibration Due Date	06/2023
Technician	Josh K.

Specimen 1 to 5



	Specimen	Initial Width [mm]	Depth [mm]	Length [mm]	Area [mm^2]	Ultimate Elongation [%]	Cohesive Failure
1	H-1	9.55	12.61	50.77	640	109.9	100%
2	H-2	9.56	12.71	50.73	645	118.1	100%
3	H-3	9.55	12.62	50.72	640	151.9	100%
4	H-4	9.54	12.69	50.75	644	120.8	100%
5	H-5	9.55	12.65	50.61	640	116.5	100%
Mean		9.55	12.66	50.72	642	123.5	

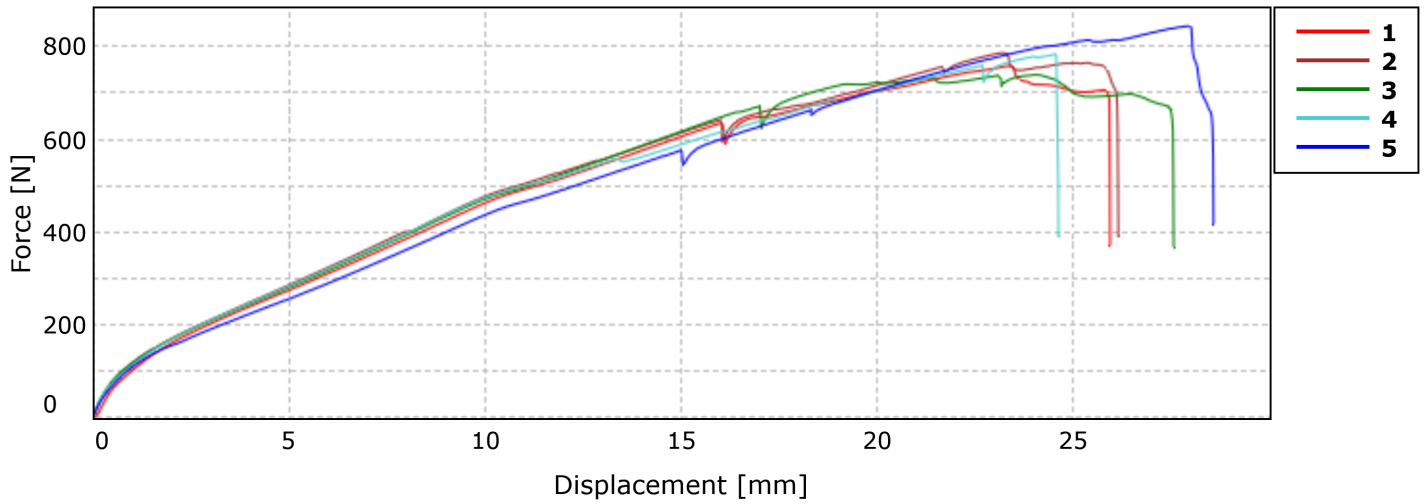
	Specimen	Load at Maximum Elongation [N]	Tensile stress at 10% Elongation [kPa]	Tensile stress at 25% Elongation [kPa]	Tensile stress at 50% Elongation [kPa]	Tensile stress at 100% Elongation [kPa]	Peak Load [N]	Tensile Strength [kPa]
1	H-1	218	166	306	469	677	436	681
2	H-2	217	168	306	464	664	435	674
3	H-3	205	168	307	469	592	424	662
4	H-4	209	175	311	466	588	420	652
5	H-5	224	173	312	471	692	451	705
Mean		215	170	308	468	642	433	675

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ASTM C1135, STM for Determining Tensile Adhesion Properties of Structural Sealants

Intertek-ATI Project #	N7629.02-106-31
Client Name	Dow Silicones Corporation
Sample Description	DOWSIL 995, -29°C Air Exposure
Test Speed	0.50 in/min
Caliper ICN	INT01131
Lab Conditions	69.9°F / 45.1% RH
Lab Condition Sensor ICN	63311
Test Frame / ICN	Satec / Y002011
Load Cell Capacity / ICN	500 lb / INT02893
Test Frame Calibration Due Date	06/2023
Load Cell Calibration Due Date	06/2023
Technician	Josh K.

Specimen 1 to 5



	Specimen	Initial Width [mm]	Depth [mm]	Length [mm]	Area [mm^2]	Ultimate Elongation [%]	Cohesive Failure
1	F-1	9.54	12.66	51.12	647	271.8	100%
2	F-2	9.56	12.55	50.49	634	273.4	100%
3	F-3	9.55	12.48	50.44	629	288.4	100%
4	F-4	9.56	12.54	50.54	634	257.4	100%
5	F-5	9.54	12.40	50.41	625	299.4	100%
Mean		9.55	12.53	50.60	634	278.1	

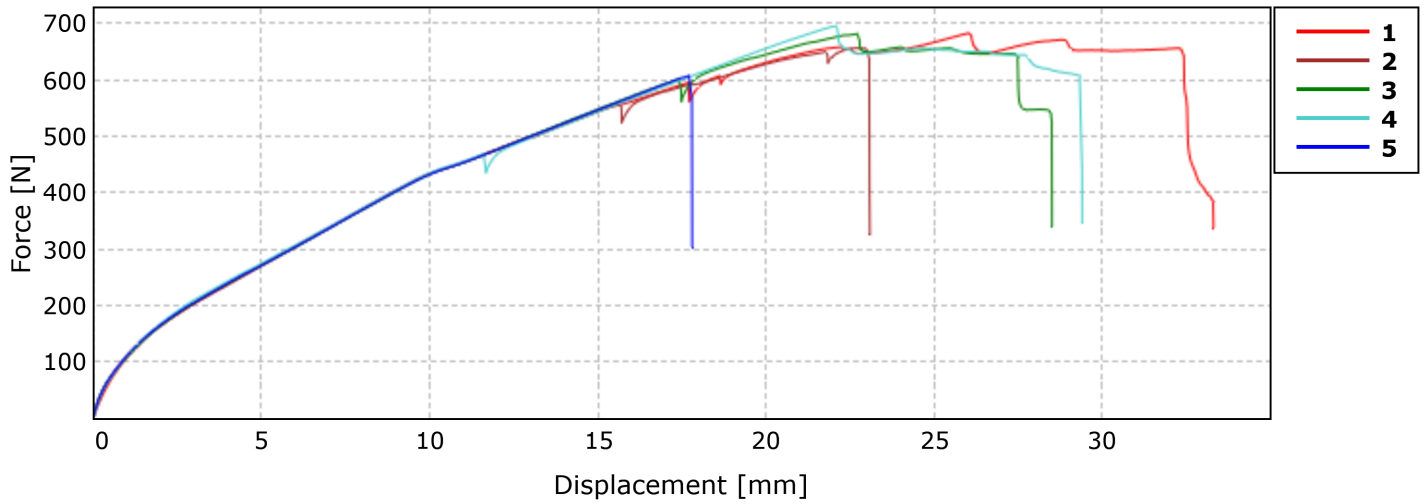
	Specimen	Load at Maximum Elongation [N]	Tensile stress at 10% Elongation [kPa]	Tensile stress at 25% Elongation [kPa]	Tensile stress at 50% Elongation [kPa]	Tensile stress at 100% Elongation [kPa]	Peak Load [N]	Tensile Strength [kPa]
1	F-1	371	151	275	412	687	758	1170
2	F-2	390	181	295	437	725	785	1240
3	F-3	367	182	294	433	721	738	1170
4	F-4	390	173	293	434	721	784	1240
5	F-5	417	169	270	398	671	843	1350
Mean		387	171	285	423	705	782	1230

intertek
Total Quality. Assured.

ASTM C1135, STM for Determining Tensile Adhesion Properties of Structural Sealants

Intertek-ATI Project #	N7629.02-106-31
Client Name	Dow Silicones Corporation
Sample Description	DOWSIL 995, Water Exposure
Test Speed	0.50 in/min
Caliper ICN	INT01131
Lab Conditions	69.9°F / 45.1% RH
Lab Condition Sensor ICN	63311
Test Frame / ICN	Satec / Y002011
Load Cell Capacity / ICN	500 lb / INT02893
Test Frame Calibration Due Date	06/2023
Load Cell Calibration Due Date	06/2023
Technician	Josh K.

Specimen 1 to 5



	Specimen	Initial Width [mm]	Depth [mm]	Length [mm]	Area [mm^2]	Ultimate Elongation [%]	Cohesive Failure
1	W-1	9.57	12.51	50.84	636	348.0	100%
2	W-2	9.53	12.68	50.75	644	242.2	100%
3	W-3	9.54	12.67	51.34	650	298.7	100%
4	W-4	9.52	12.57	50.59	636	308.7	100%
5	W-5	9.51	12.62	50.50	637	187.2	100%
Mean		9.53	12.61	50.80	641	277.0	

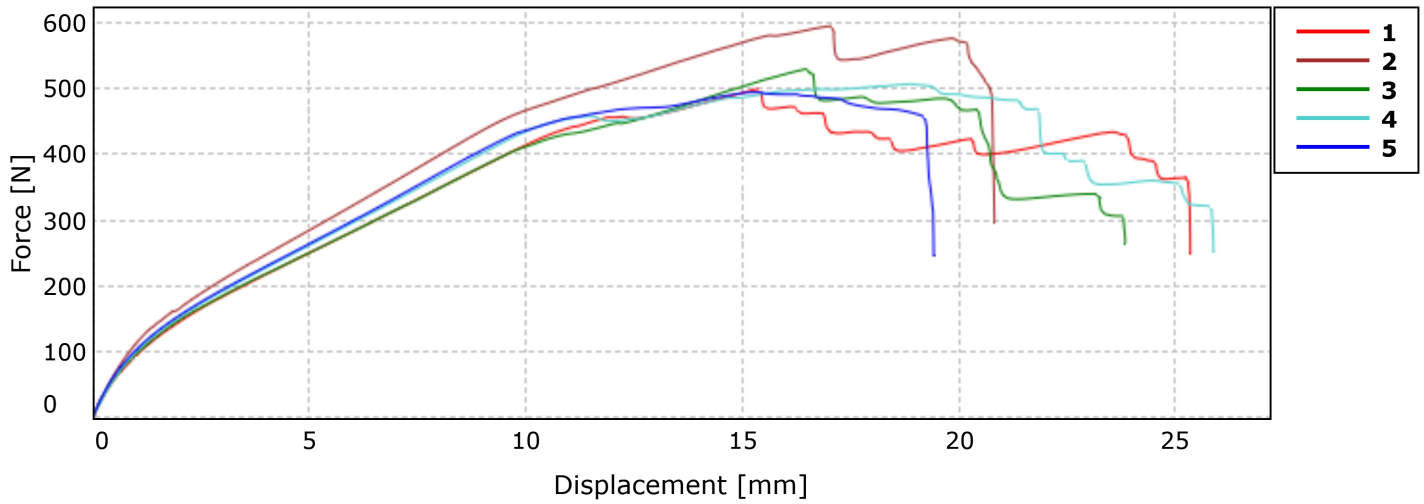
	Specimen	Load at Maximum Elongation [N]	Tensile stress at 10% Elongation [kPa]	Tensile stress at 25% Elongation [kPa]	Tensile stress at 50% Elongation [kPa]	Tensile stress at 100% Elongation [kPa]	Peak Load [N]	Tensile Strength [kPa]
1	W-1	337	163	282	415	662	683	1070
2	W-2	325	166	279	406	652	656	1020
3	W-3	340	161	277	406	644	682	1050
4	W-4	345	168	290	420	662	695	1090
5	W-5	303	168	285	413	657	609	955
Mean		330	165	283	412	655	665	1040

intertek
Total Quality. Assured.

ASTM C1135, STM for Determining Tensile Adhesion Properties of Structural Sealants

Intertek-ATI Project #	N7629.02-106-31
Client Name	Dow Silicones Corporation
Sample Description	DOWSIL 995, UV Exposure
Test Speed	0.50 in/min
Caliper ICN	INT01131
Lab Conditions	69.9°F / 45.1% RH
Lab Condition Sensor ICN	63311
Test Frame / ICN	Instron / 005740
Load Cell Capacity / ICN	2 kN / 005742
Test Frame Calibration Due Date	06/2023
Load Cell Calibration Due Date	06/2023
Technician	Josh K.

Specimen 1 to 5



	Specimen	Initial Width [mm]	Depth [mm]	Length [mm]	Area [mm^2]	Ultimate Elongation [%]	Cohesive Failure
1	UV-1	9.95	11.92	50.53	602	254.8	100%
2	UV-2	9.58	12.27	50.34	618	217.4	100%
3	UV-3	9.85	12.01	50.44	606	242.2	100%
4	UV-4	9.85	12.27	50.31	617	262.8	100%
5	UV-5	9.63	11.83	50.43	597	201.7	100%
Mean		9.77	12.06	50.41	608	235.8	

	Specimen	Load at Maximum Elongation [N]	Tensile stress at 10% Elongation [kPa]	Tensile stress at 25% Elongation [kPa]	Tensile stress at 50% Elongation [kPa]	Tensile stress at 100% Elongation [kPa]	Peak Load [N]	Tensile Strength [kPa]
1	UV-1	249	152	268	403	662	499	829
2	UV-2	297	177	298	447	735	595	963
3	UV-3	264	154	271	402	659	530	875
4	UV-4	252	157	274	411	680	507	821
5	UV-5	245	168	287	429	711	494	829
Mean		262	161	280	418	690	525	863

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SECTION 12
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	04/03/23	N/A	Original Report Issue