

No.: GZAT1911019255NM

Date: Dec 02, 2019

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CUSTOMER NAME: DONGGUAN GUANGMAI ELECTRONIC TECHNOLOGY CO., LTD ADDRESS: 16B, INTERNATIONAL FINANCE IT RESEARCH AND DEVELOPMENT CENTER, NO.5 KEJI TEN ROAD, SONGSHAN LAKE HIGH-TECH INDUSTRIAL DEVELOPMENT ZONE, DONGGUAN, CHINA

The following sample's information(s) was/ were submitted and identified on behalf of the client as:

Sample Name : cellular silicone foam

Part No. : GK-260

Other Information : 1. Colour: black 2. Thickness: 3mm

SGS Ref No. : GZIN1911063240MR

Date of Receipt : Nov 22, 2019

Testing Start Date : Nov 22, 2019

Testing End Date : Nov 29, 2019

Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. GZ Branch Testing Center

Denise Xin

Technical Manager





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Report Declaration:

The test samples were provided and confirmed by the customer in this report, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products manufactured are in conformity with the product sample in this report.

In the territory of the People's Republic of China, the test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc... and just for client internal reference.

Manufacture Declaration or Comment:

None

Summary of Result(s):

No.	Test Item	Test Method	Conclusion
1.	Compression Deflection	ASTM D1056-14 Section 17~23	N/A
2.	Compression Set	ASTM D1056-14 Section 50-56	N/A
3.	Compressive Strength	Provided by client	N/A
4.	Density	ASTM D1056-14 Section 62~68	N/A
5.	Low-Temperature Flex Test	ASTM D1056-14 Section 57-61	N/A
6.	Tensile Test	With reference to ASTM D412- 16 Method A and client's requirement	N/A
7.	Water Absorption	Provided by client	N/A

Note: Pass: Meet the requirements

Fail: Does not meet the requirements N/A: Not apply to the judgment



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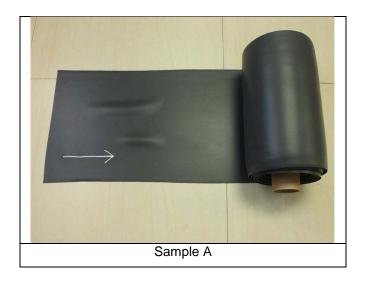


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Original Sample Photo:





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1.Test Item: Compression Deflection

Sample Description: Foam

Test Method: ASTM D1056-14 Section 17~23

Test Condition:

Specimen diameter: 28.85 mm

Specimen thickness:9.11 mm(3 layers plied up)

Testing speed: 12.7 mm/min

Compression rate: 25 %

Lab Environment Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Test Item	Test Result	
Compression Deflection	1.79psi	

Note: Test specimens were cut from the sample.



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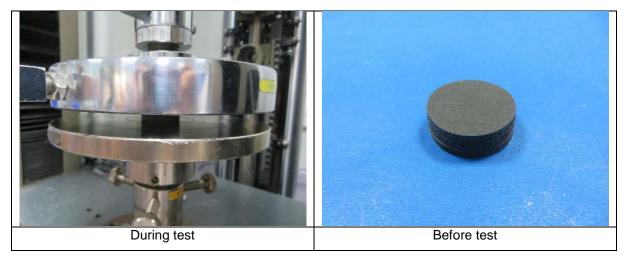


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Test Photo:



Equipment Information:

Fauinment	winment Medel Equipment No.		Calibratian data	Next Calibration
Equipment	Model	Equipment No.	Calibration date	date
Universal Testing	Z010	GZMR-PL-E038	2019-09-03	2020-09-02
Machine	2010	GZIVIIN-I E-E030	2019-09-03	2020-09-02



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Test Item: Compression Set Sample Description: Foam

Test Method: ASTM D1056-14 Section 50~56

Test Condition:

Specimen diameter: 29mm

Specimen thickness: 9.24mm (3 layers plied up)

Test condition: 100 °C, 22h Compression rate: 50%

Recovery condition: (23±2) $^{\circ}\text{C}$,(50±5)%RH,30min

Lab Environment Condition: (23±2) °C,(50±5)%RH

Test Result:

Test Item	Test Result
Compression Set	1%

Note: Test specimens were cut from the sample.



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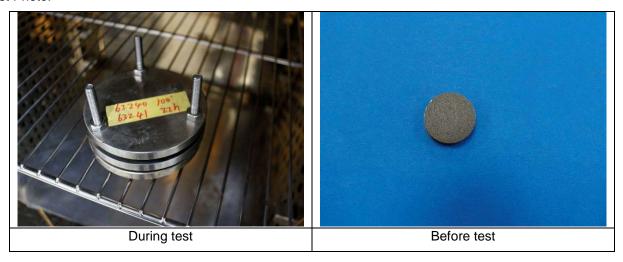


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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Oven	UF260plus	GZMR-PL-E138	2019-04-17	2020-04-16
Thickness Gauge	TG-3130-H	GZMR-PL-E141	2019-02-18	2020-02-17



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3. Test Item: Compressive Strength

Sample Description: Foam

Test Method: Provided by client, measure the original thickness with 1N, and every 10% compression retain for

1min.

Test Condition:

Specimen: 50mm×50mm×15.1mm (5 layers plied up)

Testing speed: 1mm/min

Lab Environment Condition: (23±2)℃, (50±5)%RH

Test Result:

Test item	Test Result
10% strain Compressive Stress, MPa	0.0063
10% strain Compressive Stress, psi	0.914
20% strain Compressive Stress, MPa	0.0091
20% strain Compressive Stress, psi	1.32
30% strain Compressive Stress, MPa	0.012
30% strain Compressive Stress, psi	1.74
40% strain Compressive Stress, MPa	0.016
40% strain Compressive Stress, psi	2.32
50% strain Compressive Stress, MPa	0.023
50% strain Compressive Stress, psi	3.33
60% strain Compressive Stress, MPa	0.037
60% strain Compressive Stress, psi	5.37
70% strain Compressive Stress, MPa	0.078
70% strain Compressive Stress, psi	11.3



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Instantaneous Force at interval of 1% Compression rate:

Compression rate 0/	#	1	#2		#3	
Compression rate, %	MPa	psi	MPa	psi	MPa	psi
1	0.0014	0.208	0.0013	0.188	0.0014	0.197
2	0.0026	0.370	0.0025	0.360	0.0025	0.362
3	0.0036	0.519	0.0037	0.531	0.0035	0.513
4	0.0043	0.625	0.0046	0.672	0.0043	0.627
5	0.0048	0.694	0.0054	0.785	0.0048	0.702
6	0.0051	0.741	0.0059	0.859	0.0053	0.761
7	0.0054	0.780	0.0062	0.900	0.0056	0.810
8	0.0056	0.811	0.0065	0.937	0.0059	0.852
9	0.0058	0.845	0.0067	0.973	0.0061	0.887
10	0.0060	0.876	0.0069	0.995	0.0064	0.922
11	0.0062	0.905	0.0072	1.04	0.0065	0.948
12	0.0065	0.943	0.0075	1.08	0.0068	0.985
13	0.0068	0.979	0.0077	1.11	0.0070	1.02
14	0.0070	1.02	0.0079	1.15	0.0073	1.06
15	0.0073	1.06	0.0082	1.19	0.0075	1.09
16	0.0076	1.10	0.0084	1.22	0.0078	1.14
17	0.0079	1.15	0.0087	1.27	0.0082	1.18
18	0.0083	1.20	0.0090	1.31	0.0085	1.23
19	0.0086	1.25	0.0093	1.35	0.0088	1.28
20	0.0090	1.30	0.0097	1.40	0.0091	1.32
21	0.0093	1.35	0.0099	1.44	0.0094	1.37



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Compression rate 0/	#	1	#2		#3	
Compression rate, %	MPa	psi	MPa	psi	MPa	psi
22	0.0097	1.40	0.010	1.49	0.0098	1.42
23	0.010	1.46	0.011	1.54	0.010	1.48
24	0.010	1.51	0.011	1.59	0.011	1.53
25	0.011	1.56	0.011	1.64	0.011	1.58
26	0.011	1.61	0.012	1.69	0.011	1.63
27	0.011	1.66	0.012	1.74	0.012	1.68
28	0.012	1.71	0.012	1.78	0.012	1.72
29	0.012	1.75	0.013	1.83	0.012	1.77
30	0.012	1.77	0.013	1.88	0.013	1.82
31	0.013	1.83	0.013	1.92	0.013	1.85
32	0.013	1.89	0.014	1.98	0.013	1.91
33	0.013	1.94	0.014	2.03	0.014	1.96
34	0.014	1.99	0.014	2.09	0.014	2.01
35	0.014	2.05	0.015	2.15	0.014	2.07
36	0.015	2.10	0.015	2.21	0.015	2.13
37	0.015	2.16	0.016	2.27	0.015	2.19
38	0.015	2.22	0.016	2.34	0.015	2.24
39	0.016	2.29	0.017	2.41	0.016	2.31
40	0.016	2.31	0.017	2.48	0.016	2.34
41	0.017	2.41	0.018	2.54	0.017	2.43
42	0.017	2.50	0.018	2.63	0.017	2.52



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Compression rate 0/	#	1	#2		#3	
Compression rate, %	MPa	psi	MPa	psi	MPa	psi
43	0.018	2.58	0.019	2.72	0.018	2.60
44	0.018	2.67	0.019	2.82	0.019	2.69
45	0.019	2.76	0.020	2.92	0.019	2.79
46	0.020	2.87	0.021	3.02	0.020	2.89
47	0.021	2.98	0.022	3.14	0.021	2.99
48	0.021	3.09	0.022	3.26	0.021	3.11
49	0.022	3.21	0.023	3.39	0.022	3.23
50	0.023	3.35	0.024	3.53	0.023	3.29
51	0.024	3.46	0.025	3.65	0.024	3.47
52	0.025	3.63	0.026	3.83	0.025	3.64
53	0.026	3.80	0.028	4.01	0.026	3.82
54	0.027	3.98	0.029	4.21	0.028	4.00
55	0.029	4.19	0.031	4.42	0.029	4.20
56	0.030	4.41	0.032	4.65	0.031	4.43
57	0.032	4.65	0.034	4.90	0.032	4.66
58	0.034	4.91	0.036	5.17	0.034	4.92
59	0.036	5.20	0.038	5.48	0.036	5.20
60	0.038	5.51	0.040	5.80	0.038	5.52
61	0.040	5.81	0.042	6.12	0.040	5.81
62	0.043	6.23	0.045	6.55	0.043	6.23
63	0.046	6.68	0.048	7.01	0.046	6.67

Compression rate 0/	#1		#2		#3	
Compression rate, %	MPa	psi	MPa	psi	MPa	psi
64	0.049	7.16	0.052	7.52	0.049	7.15
65	0.053	7.71	0.056	8.09	0.053	7.69
66	0.057	8.33	0.060	8.73	0.057	8.29
67	0.062	9.03	0.065	9.45	0.062	8.98
68	0.068	9.83	0.071	10.3	0.067	9.76
69	0.074	10.8	0.077	11.2	0.074	10.7
70	0.081	11.8	0.085	12.3	0.081	11.7

Note: The surface without plastic film was faced to the loading.



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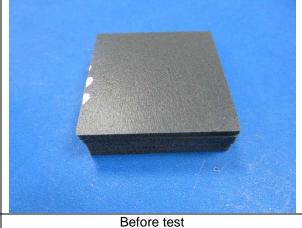
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Test Photo:





During test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration
Equipment Model		Equipment No.	Cambration date	date
Universal Testing	Z010	GZMR-PL-E038	2019-09-03	2020-09-02
Machine	2010	GZIVIN-F L-LU30	2019-09-03	2020-09-02



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4. Test Item: Density

Sample Description: Foam

Test Method: ASTM D1056-14 Section 62~68

Test Condition:

Specimen: 100mm x 100mm x 3.1mm

Lab Environmental Condition: $23 \pm 2 \,^{\circ}\text{C}$, $50 \pm 5 \,^{\circ}\text{RH}$

Test Result:

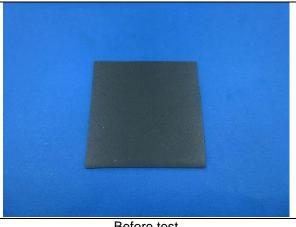
Test Item	Test Result
Density	14.6lb/ft ³

Note: Test specimens were cut from the sample.

Test Photo:







Before test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Thickness Gauge	TG-3130-H	GZMR-PL-E141	2019-02-18	2020-02-17
Digital Vernier Caliper	0~200mm/0.01 mm	GZMR-PL-E041-17	2019-03-05	2020-03-04
Electron Balance	XPE204	GZMR-PL-E004-06	2019-09-20	2020-09-19



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5. Test Item: Low-temperature Flex Test

Sample Description: Foam

Test Method: ASTM D1056-14 Section 57~61

Test Condition:

Specimen: 152mmx50mmx3.0mm

Condition: -55°C, 5h

Mandrel diameter: 12mm Bend around angle: 180°

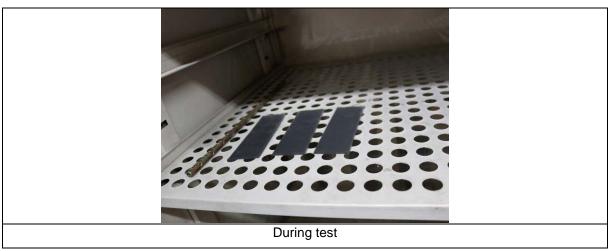
Lab Environmental Condition:(23±2)°C,(50±5)%RH

Test Result:

Test Item	Test Result
Low-temperature Flex Test	No signs of cracking

Note: Test specimens were cut from the sample.

Test Photo:





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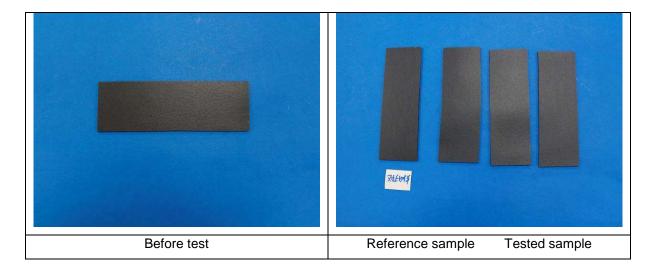
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
High/Low				
Temperature	MS-WSJ-360B	GZMR-PL-E137	2019-05-13	2020-05-12
Impact Chamber				



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6.Test Item: Tensile Test Sample Description: Foam

Test Method: With reference to ASTM D412-16 Method A and client's requirement

Test Condition:

Specimen: Die C

Specimen thickness: 3.22mm
Testing speed: 500mm/min

Gauge length: 25mm

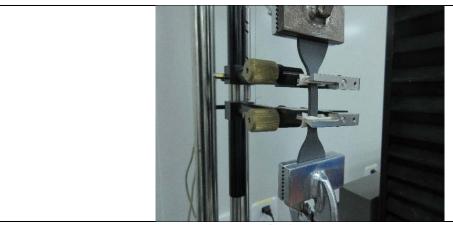
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Tensile Strength	0.252 MPa
Elongation at Break	95 %

Note: Test specimens were cut from the sample.

Test Photo:



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During test



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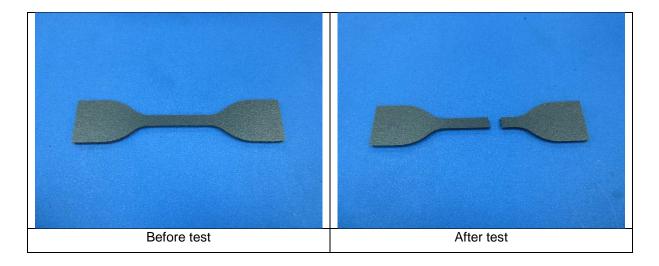
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	CMT6103	GZMR-PL-E022	2019-09-04	2020-09-03



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7. Test Item: Water Absorption Sample Description: Foam

Test Method: Provided by client

Test Condition:

Specimen: 50.8mm×50.8mm×3.1mm

Immersion condition: Immerse under a 50.8mm head of water, 23±2°C, 24h

Lab Environmental Condition: 23±2℃, 50±5%RH

Test Result:

Test Item	Test Result
Water Absorption	3.87% (See note 1)

Note:

- 1. Water absorption, %=(Mass after immersion-Mass before immersion)/Mass before immersion×100
- 2. Test specimens were cut from the sample.



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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electron Balance	XPE204	GZMR-PL-E004-06	2019-09-20	2020-09-19

****** End of report*****



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