

**Textile Laboratory**

**Test Report**

No: TX51568 /2019 /LE

Date: May 31, 2019

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Enerage Inc.  
No.5, Ligong 3rd Rd., Wujie Township,  
Yilan County 26841, Taiwan, R.O.C.

The following sample was submitted and identified by applicant as:

Sample Description : Two samples of knitted fabrics graphene printed textile  
(A) Test sample (B) Control sample

Color : Grey

Fiber Content : 88 % Polyester 12% Cotton

Fabric Weight : 330 gsm

Applicant : Enerage Inc.

Sample Receiving Date : May 22, 2019

Test Performance Period : May 22, 2019 to May 31, 2019

Test Performed : Selected test(s) as requested by applicant.

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

**Signed for and on behalf of  
SGS Taiwan Ltd.**



**Chu Pei Hsin, Iris  
Test Specialist**

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Test Results:

Light-absorbing Thermal Retention Test (BQE A 036-2011)

Test method:

Attach a temperature sensor to the inner-center to the submitted sample. While exposing the sample to the reflex lamp, measure temperature change every one minute in 20 minutes. The measurement conditions are as follows:

1. Lamp: PRF-500WD
2. Irradiation distance: 30 cm
3. Measurement terms: Illuminate the sample with a reflex lamp for 10 minutes, then turn off immediately. Turn the light off, continue measuring the sample for 10 minutes.
4. Test condition: 20±2°C 65±4%RH
5. Measurement method: Sample 1st and 2nd side by side measured under same conditions. Then measure again on alternate sample 1st and 2nd. The average should be test result.

Test Results:

Time (minutes)	Temperature (°C)		Temperature Difference ΔT=(A)-(B)
	(A) Test sample	(B) Control sample	
0	20.2	20.2	0.0
1	31.1	28.7	2.4
2	37.5	33.5	4.0
3	42.4	37.5	4.9
4	46.0	40.4	5.6
5	48.3	42.7	5.6
6	50.1	44.2	5.9
7	50.8	45.1	5.7
8	51.4	45.6	5.8
9	52.1	46.5	5.6
10	52.3	46.7	5.6
11	40.8	37.8	3.0
12	34.3	32.9	1.4
13	30.6	29.7	0.9
14	28.2	27.6	0.6
15	26.6	26.1	0.5
16	25.3	24.9	0.4
17	24.4	24.1	0.3
18	23.7	23.6	0.1
19	23.2	23.0	0.2
20	22.9	22.8	0.1

Tested by other laboratory.

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Sample Photo



(A)



(B)

\*\*\* End of Report \*\*\*

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