

Textile Laboratory

Test Report No: TX33091 /2024 /SP Date: Apr. 12, 2024 Page 1 of 2

World Knitting Ind. Co., Ltd. 12F, No. 192, Rui Guang Rd., Nei Hu, Taipei, Taiwan, R.O.C.

The following samples were submitted and identified by applicant as:

Sample Description Two samples of knitted fabric graphene drop needle polar fleece

> (A) Test sample (B) Control sample

Color (A) Navy (B) Red

Fiber Content 100% Polyester

Fabric Weight 155gm/m²

Style No. D836 Navy with graphene,

D837 control sample: Red without graphene

Manufacturer/Vendor World Knitting Ind. Co., Ltd.

Country of Origin Taiwan

World Knitting Ind. Co., Ltd. Applicant

Sample Receiving Date Mar. 29, 2024

Test Performance Period Mar. 29, 2024 to Apr. 12, 2024

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 SGS Taiwan Ltd. Kuo Ling, Cherry Supervisor

"Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, and such sample(s) are retained for 1 months only." This test report cannot be reproduced, except in full, without prior written permission of the Company.
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions.
Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."



Textile Laboratory

Test Report No: TX33091 /2024 /SP Date: Apr. 12, 2024 Page 2 of 2

Test Results:

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

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:

	Temperature (℃)		Temperature
Time (minutes)	(A)	(B)	Difference
	Test sample	Control sample	ΔT=(A)-(B)
0	19.9	19.9	0.0
1	46.1	31.1	15.0
2	55.3	35.1	20.2
3	59.0	37.4	21.6
4	60.7	38.6	22.1
5	62.1	39.6	22.5
6	63.0	40.4	22.6
7	64.1	40.7	23.4
8	64.6	41.0	23.6
9	64.8	41.3	23.5
10	65.0	41.4	23.6
11	41.0	30.2	10.8
12	32.3	26.5	5.8
13	28.6	24.6	4.0
14	26.1	23.4	2.7
15	24.6	22.7	1.9
16	23.8	22.3	1.5
17	23.1	21.8	1.3
18	22.6	21.5	1.1
19	22.1	21.2	0.9
20	21.8	21.1	0.7

Tested by other laboratory.

*** End of Report ***

[&]quot;Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, and such sample(s) are retained for 1 months only." This test report cannot be reproduced, except in full, without prior written permission of the Company.
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions.
Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."