



Kaken Test Center GENERAL INCORPORATED FOUNDATION

2-5-19, Edobori, Nishi-ku, Osaka,550-0002/ Japan
Tel: +81-(0)6-6441-0315, Fax: +81-(0)6-6441-2420

Kaken Test Center is formerly named as "Japan Synthetic Textile Inspection Institute Foundation(JSTIIF)".

No.1/2

Certificate No. : OS-17-053829 (1)

Date : November 22, 2017

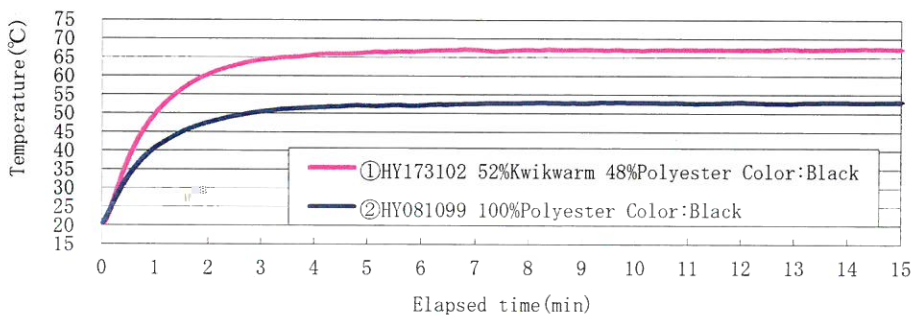
TEST CERTIFICATE

Requested : Beta Textiles Co., Limited
Test Samples : ①HY173102 52%Kwikwarm 48%Polyester Color: Black
②HY081099 100%Polyester Color: Black 2 Samples in Total.
Test Items : Evaluation of Heat Storage Efficiency
Received : November 17, 2017

This is to certify that the results of laboratory test applied on the sample are as follows:

1. Test Results

Elapsed time (min)	Temperature (°C)	
	①	②
0	20.5	20.4
0.5	37.9	33.2
1	49.8	40.8
2	60.4	47.5
5	66.3	52.1
10	66.9	52.9
15	67.2	53.1



Kaken Test Center General Incorporated Foundation
Osaka Laboratories

Inspector : T. Oida
T. Oida

(To be continued on No.2/2)

Kaken Test Center
GENERAL INCORPORATED FOUNDATION
Lab Address: 2-5-19, Edobori, Nishi-ku, Osaka,
550-0002/ Japan
Tel: +81-(0)6-6441-0315
Fax: +81-(0)6-6441-2420

Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted.

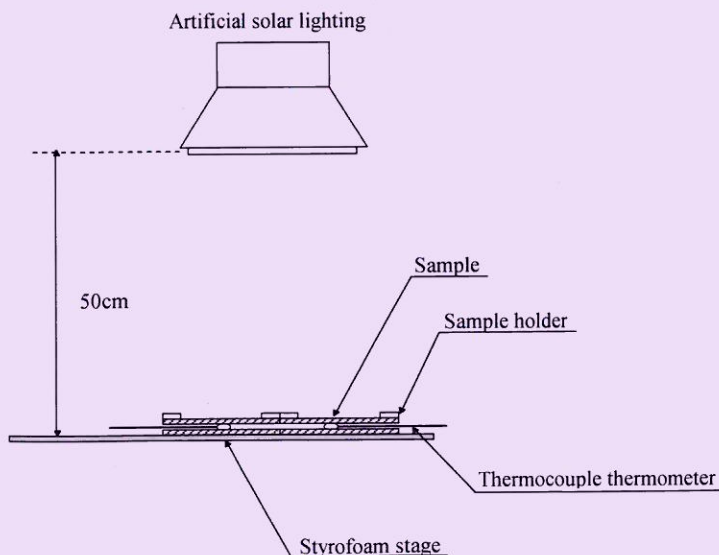
TEST CERTIFICATE (continued from No.1/2)

2. Test Method

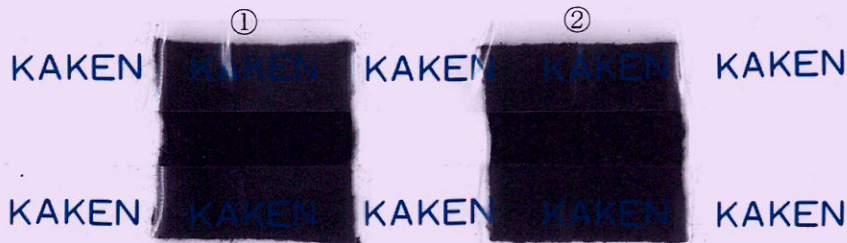
Curves of a temperature-elapsed time relationship, obtained through a thermocouple thermometer inserted between two layers of test sample, has been recorded under the following heating conditions. (Refer to the illustration shown below.)

In addition, two measurements have been carried out for each sample by alternating the position of the two samples on the apparatus. Test results have been calculated as the mean of the two measurements.

- Reflight : Artificial Solar lighting XC-500EFSS manufactured by Seric.,Ltd
- Irradiation Distance : 50cm
- Irradiation Surface : Surface of a test sample
- Duration of Irradiation : 15 minutes
- Atmospheric Condition : $20 \pm 2^{\circ}\text{C}$



3. Samples



Period.