

## TEST REPORT

No. : GZIN2007033657PS

Date : Jul 17, 2020

Page: 1 of 9

scan to see the report



GZIN2007033657PS

CUSTOMER NAME: K-FLEX MALAYSIA SDN BHD  
ADDRESS: LOT 2725, JALAN RAJA NONG, TAMAN KLANG, JAYA, 41200,  
KLANG, SELANGOR DARUL EHSAN, MALAYSIA

Sample Name : K-FLEX SOLAR HT

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

Date of Receipt : Jul 06, 2020  
Testing Start Date : Jul 06, 2020  
Testing End Date : Jul 17, 2020  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

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

Quincey lee  
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Materials Laboratory

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# TEST REPORT

No. : GZIN2007033657PS

Date : Jul 17, 2020

Page: 2 of 9

## Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Density	ASTM D1667-17 Appendixes X3	59.6kg/m <sup>3</sup>	/
2	Horizontal Burning	UL 94-2013 Rev.9-2018 Section 7	HB	/
3	Vertical Burning	UL 94-2013 Rev.9-2018 Section 8	V-0	/

Note: Pass : Meet the requirements;  
 Fail : Does not meet the requirements;  
 / : Not Apply to the judgment.



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# TEST REPORT

No. : GZIN2007033657PS

Date : Jul 17, 2020

Page: 3 of 9

1. Test Item: Density

Sample Description: Foam

Test Method: ASTM D1667-17 Appendixes X3

Test Condition:

Specimen: 100mm×100mm×25mm

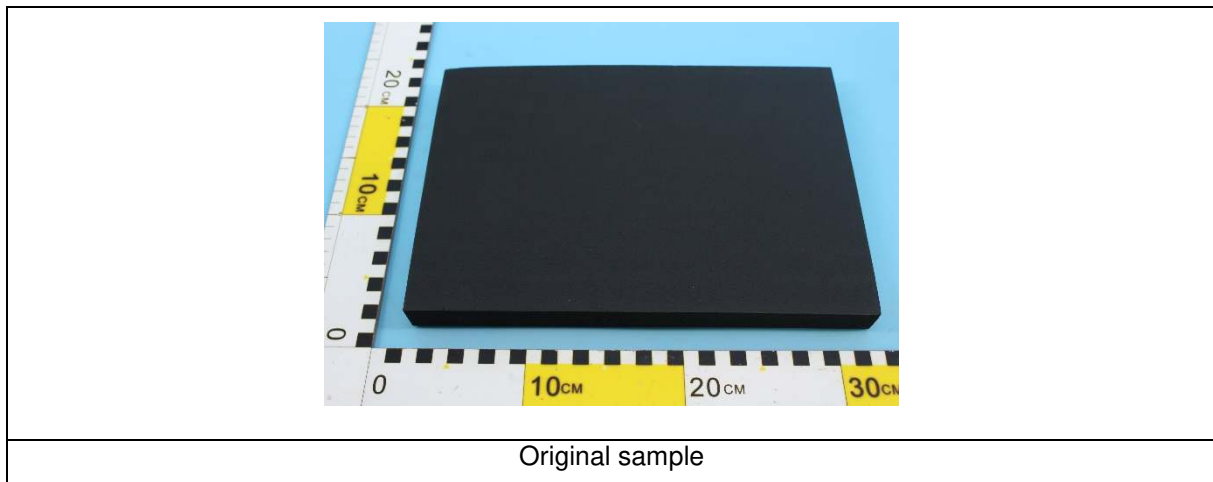
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Density	59.6kg/m <sup>3</sup>

Note: Test specimens were cut from the sample.

Test Photo:



Original sample



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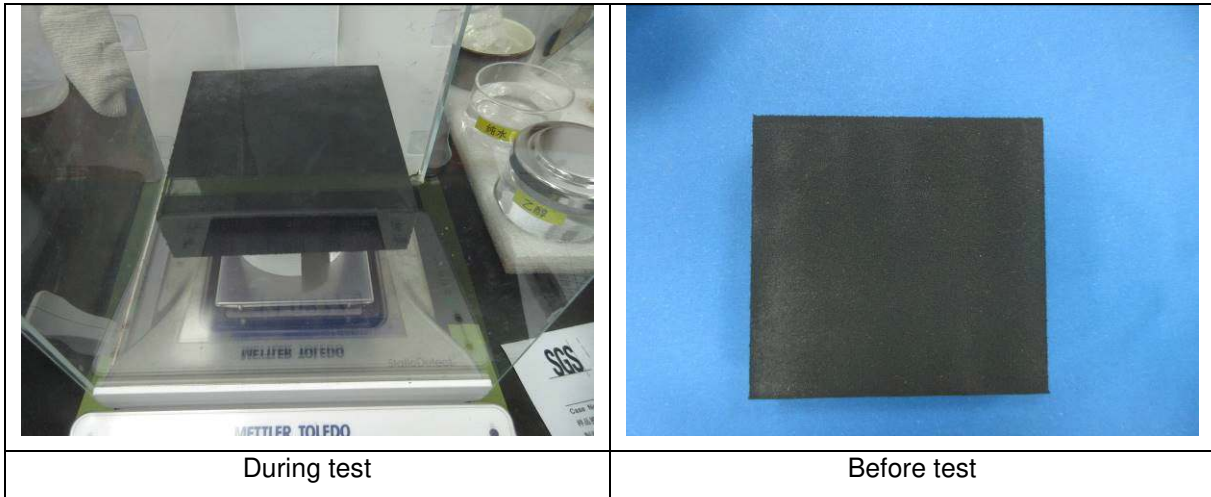
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# TEST REPORT

No. : GZIN2007033657PS

Date : Jul 17, 2020

Page: 4 of 9



During test

Before test

### Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Digital Vernier Caliper	0~200mm/0.01mm	GZMR-PL-E041-13	2019-09-12	2020-09-11
Electron Balance	XPE204	GZMR-PL-E004-06	2019-09-20	2020-09-19

### 2. Test Item: Horizontal Burning

Sample Description: Foam

Test Method: UL 94-2013 Rev.9-2018 Section 7

Test Condition:

Specimen: 125mm×12.5mm×8.8mm

Conditioning: (23±2)°C, (50±5)%RH, 48h



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# TEST REPORT

No. : GZIN2007033657PS

Date : Jul 17, 2020

Page: 5 of 9

Test Result:

Specimen	1	2	3
Burning distance, mm	/	/	/
Burning time, s	/	/	/
Burning rate, mm/min	0	0	0
Maximum burning rate, mm/min	0		

Requirements of HB Classification:

- a) Not have a burning rate exceeding 40 mm per minute over a 75 mm span for specimens having a thickness of 3.0 to 13 mm, or
- b) Not have a burning rate exceeding 75 mm per minute over a 75 mm span for specimens having a thickness less than 3.0 mm, or
- c) Cease to burn before the 100 mm reference mark.

Classification: HB

Note:

- 1. The flame extinguished after removing from the ignition source.
- 2. Test specimens were cut from the sample.



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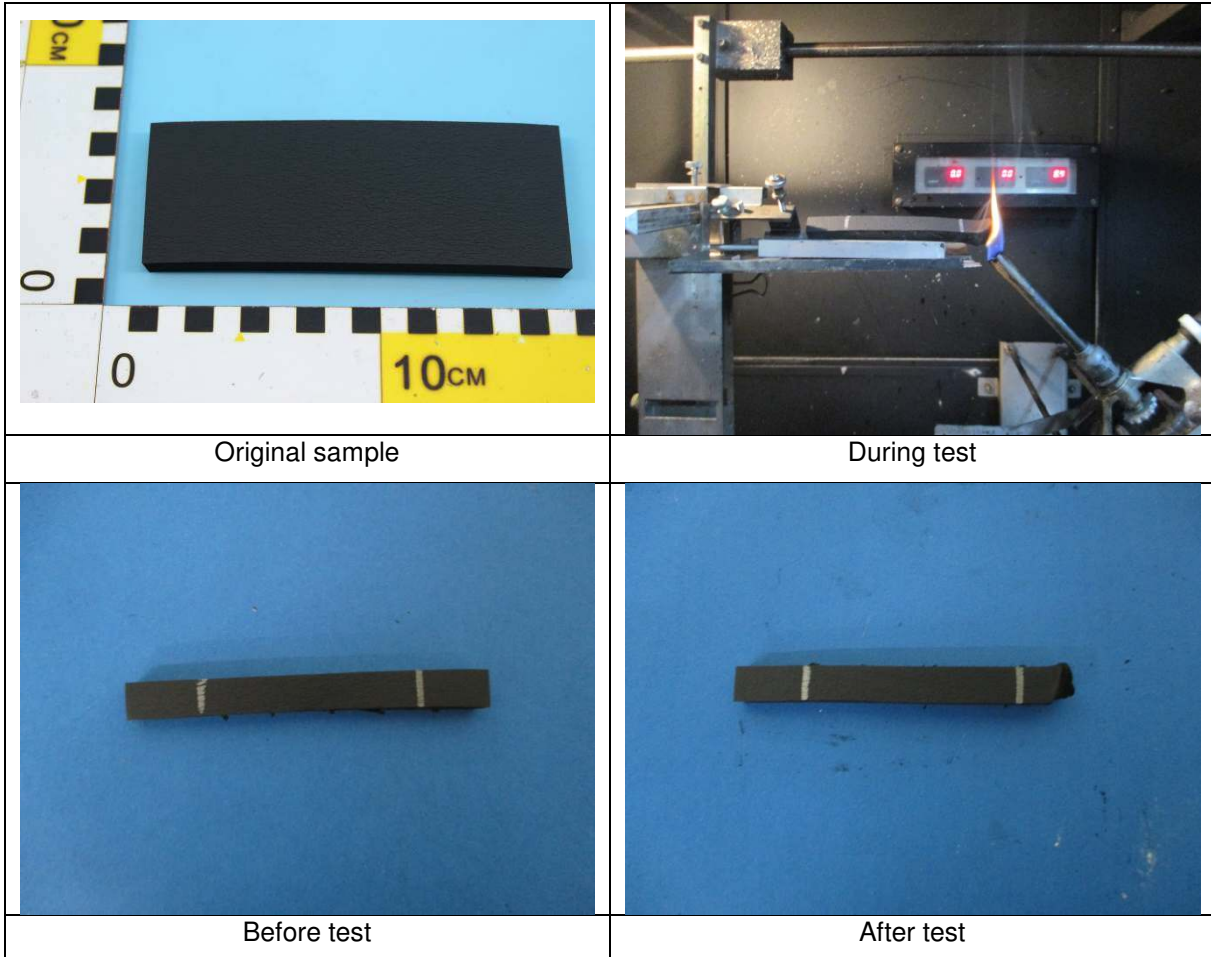
## TEST REPORT

No. : GZIN2007033657PS

Date : Jul 17, 2020

Page: 6 of 9

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Horizontal/Vertical Flame Chamber	HVUL2	GZMR-PL-E297	2020-07-01	2021-06-30



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# TEST REPORT

No. : GZIN2007033657PS

Date : Jul 17, 2020

Page: 7 of 9

3. Test Item: Vertical Burning

Sample Description: Foam

Test Method: UL 94-2013 Rev.9-2018 Section 8

Test Condition:

Specimen: 124mm×12.5mm×9.4mm

Test Result:

Conditioning	As received : (23±2)°C, (50±5)%RH, 48h					Ageing: (70±2)°C, 168h→ Desiccator, (23±2)°C, 4h				
	1	2	3	4	5	1	2	3	4	5
Specimen										
Afterflame time after the first flame application (s), t <sub>1</sub>	0	0	0	0	0	0	0	0	0	0
Afterflame time after the second flame application (s), t <sub>2</sub>	0	0	0	0	0	0	0	0	0	0
Afterglow time after the second application (s), t <sub>3</sub>	0	0	0	0	0	0	0	0	0	0
Total afterflame time for any condition set (s), t <sub>1</sub> +t <sub>2</sub>	0					0				
Afterflame time plus afterglow time after the second flame application (s), t <sub>2</sub> +t <sub>3</sub>	0	0	0	0	0	0	0	0	0	0
Whether or not specimen burn up to the holding clamp	No	No	No	No	No	No	No	No	No	No
Whether or not the cotton was ignited by flaming particles or drops	No	No	No	No	No	No	No	No	No	No

Classification: V-0 (See table 1)



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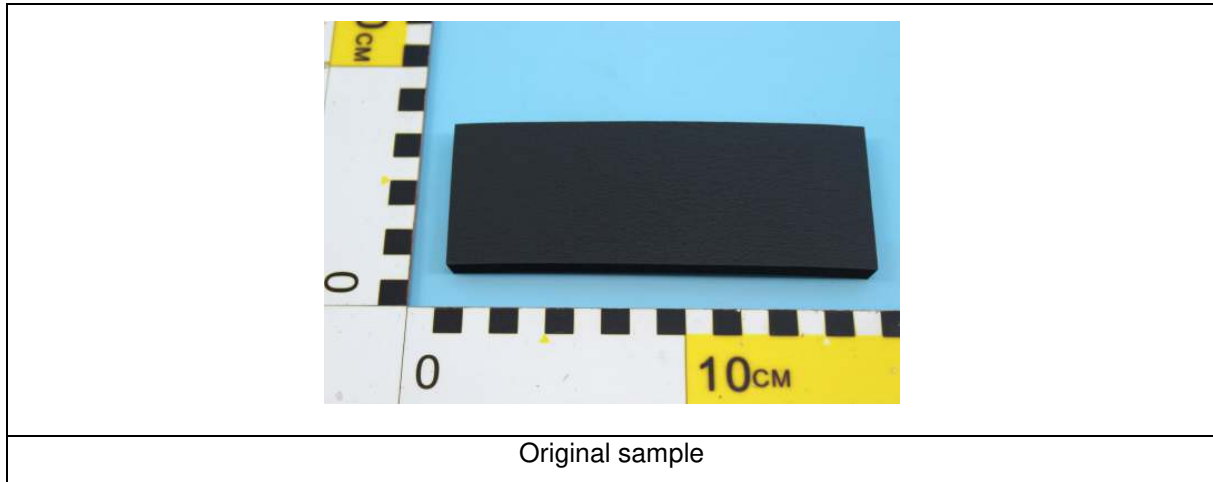
Page: 8 of 9

Table 1

Criteria conditions	V-0	V-1	V-2
Afterflame time for each individual specimen $t_1$ or $t_2$	$\leq 10s$	$\leq 30s$	$\leq 30s$
Total afterflame time for any condition set ( $t_1$ plus $t_2$ for the 5 specimens)	$\leq 50s$	$\leq 250s$	$\leq 250s$
Afterflame plus afterglow time for each individual specimen after the second flame application ( $t_2+t_3$ )	$\leq 30s$	$\leq 60s$	$\leq 60s$
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	Yes

Note: Test specimens were cut from the sample.

Test Photo:



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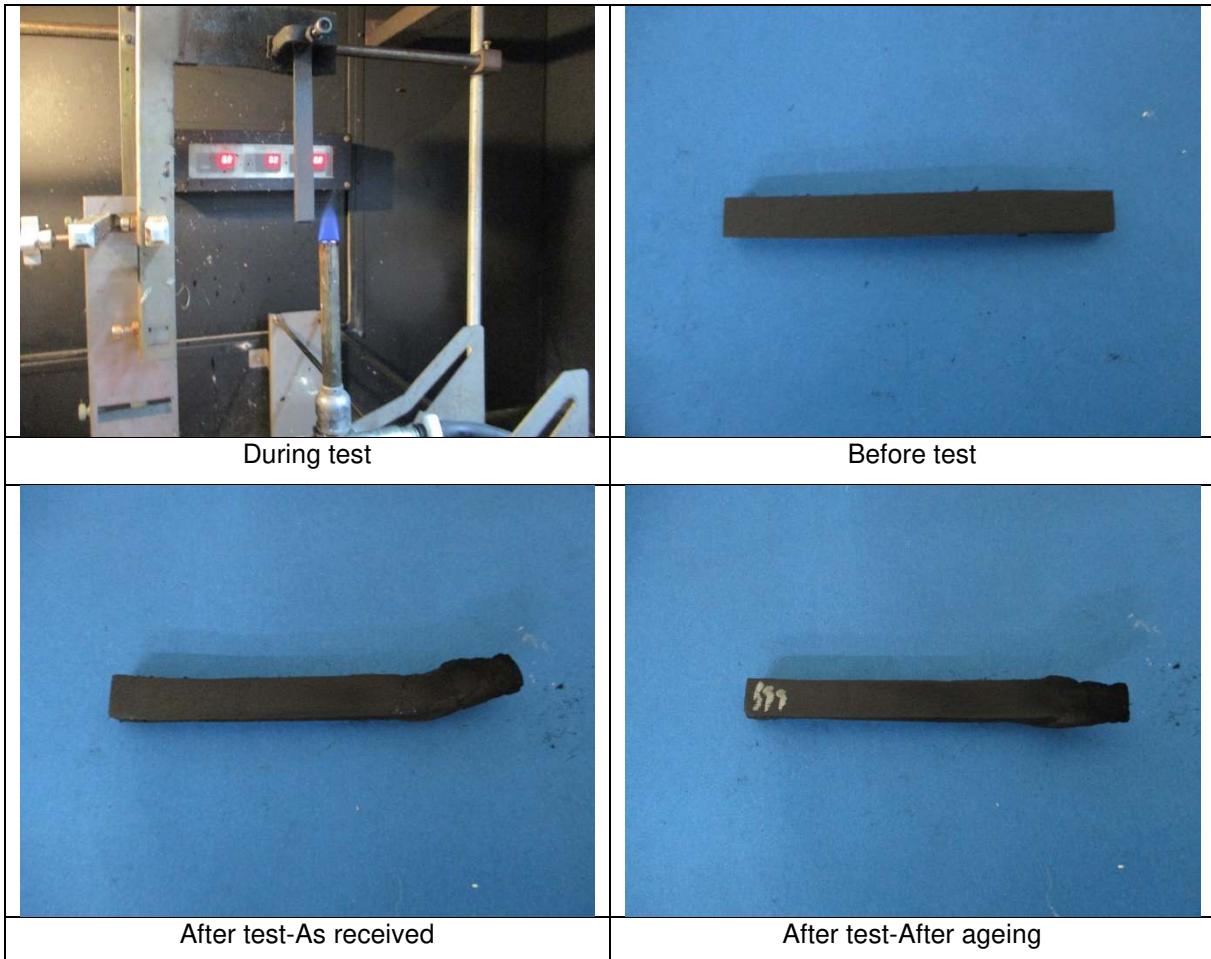


## TEST REPORT

No. : GZIN2007033657PS

Date : Jul 17, 2020

Page: 9 of 9



### Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Horizontal/Vertical Flame Chamber	HVUL2	GZMR-PL-E297	2020-07-01	2021-06-30
Oven	UF450plus	GZMR-PL-E163	2020-04-10	2021-04-09

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



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