



**Test Report**

**No.: XMHL2306003799SD**

**Date: Jul 05, 2023**

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JIANGSU SHENZHOU NEW ENERGY&ELECTRICITY CO.,LTD  
XINHE INDUSTRY PARK, XIANNVTOWN, JIANGDU DISTRICT, YANGZHOU CITY, JIANGSU PROVINCE,China

Sample Description : Ground solar mounting

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No. : SDFS2306003631FF

Sample Receiving Date : Jun 26, 2023

Test Performing Date : Jun 26, 2023 to Jul 05, 2023

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

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. Xiamen Branch



XMHL2306003799SD

Terry Hong  
Authorized Signatory



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## I. Test conducted

This test is conducted as per DIN EN 13501-1:2019 Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests. And the test method as following: EN ISO 11925-2:2020 Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test.

## II. Details of classified product

Sample Description	Plastic
Color	Black
Thickness	2.6 mm
Area density	2.37kg/m <sup>2</sup>

## III. Test results

Test methods	Parameter	Number of tests	Results
EN ISO 11925-2 Exposure = 15 s	Fs≤150mm within 20 s (Yes/No)	12	Yes
	Ignition of the filter paper (Yes/No)		Yes

## IV. Classification and field of application

### a) Reference of classification

This classification has been carried out in accordance with **DIN EN 13501-1:2019**.

### b) Classification

The product, Ground solar mounting (as described by the sponsor), in relation to its reaction to fire behaviour is classified:

**Reaction to fire classification: E-d2**

**Remark:** The classes with their corresponding fire performance are given in annex A.

### c) Field of application

This classification is valid for the following product parameters:



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--- Characteristics as described in section II of this test reports.

This classification is valid for the following end use applications:

--- Without any substrates

**Limitations**

This classification document does not represent type approval or certification of the product.

**Warning:**

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

**Statement:**

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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**Annex A**

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 <sup>a</sup> and	$\Delta T \leq 30^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0\text{MJ/kg}$ <sup>a</sup> and $PCS \leq 2.0\text{MJ/kg}$ <sup>b c</sup> and $PCS \leq 1.4\text{MJ/m}^2$ <sup>d</sup> and $PCS \leq 2.0\text{MJ/kg}$ <sup>e</sup>	-
A2	EN ISO 1182 <sup>a</sup> or	and $\Delta T \leq 50^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f \leq 20\text{ s}$	-
	EN ISO 1716		-
	EN 13823	$FIGRA_{0,2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>



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B	EN 13823 and	<i>FIGRA</i> <sub>0.2MJ</sub> ≤ 120W/s and <i>LFS</i> < edge of specimen and <i>THR</i> <sub>600s</sub> ≤ 7.5MJ	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure = 30s	<i>F</i> <sub>s</sub> ≤ 150mm within 60s	
C	EN 13823 and	<i>FIGRA</i> <sub>0.4MJ</sub> ≤ 250W/s and <i>LFS</i> < edge of specimen and <i>THR</i> <sub>600s</sub> ≤ 15MJ	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure=30s	<i>F</i> <sub>s</sub> ≤ 150mm within 60 s	
D	EN 13823 and	<i>FIGRA</i> <sub>0.4MJ</sub> ≤ 750W/s	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure=30s	<i>F</i> <sub>s</sub> ≤ 150mm within 60 s	
E	EN ISO 11925-2 <sup>i</sup> Exposure = 15s	<i>F</i> <sub>s</sub> ≤ 150mm within 20 s	flaming droplets/particles <sup>h</sup>
F	EN ISO 11925-2 <sup>i</sup> Exposure = 15 s	<i>F</i> <sub>s</sub> > 150mm within 20 s	

<sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.  
<sup>b</sup> For any external non-substantial component of non-homogeneous products.  
<sup>c</sup> Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m<sup>2</sup>, provided that the product satisfies the following criteria of EN 13823: *FIGRA* ≤ 20 W/s, and *LFS* < edge of specimen, and *THR*<sub>600s</sub> ≤ 4,0 MJ, and s<sub>1</sub>, and d<sub>0</sub>.  
<sup>d</sup> For any internal non-substantial component of non-homogeneous products.  
<sup>e</sup> For the product as a whole.  
<sup>f</sup> s<sub>1</sub> = SMOGRA ≤ 30m<sup>2</sup>/s<sup>2</sup> and TSP<sub>600s</sub> ≤ 50m<sup>2</sup>; s<sub>2</sub> = SMOGRA ≤ 180m<sup>2</sup>/s<sup>2</sup> and TSP<sub>600s</sub> ≤ 200m<sup>2</sup>; s<sub>3</sub> = not s<sub>1</sub> or s<sub>2</sub>  
<sup>g</sup> d<sub>0</sub> = No flaming droplets/ particles in EN 13823 within 600 s;  
d<sub>1</sub> = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;  
d<sub>2</sub> = not d<sub>0</sub> or d<sub>1</sub>.  
Ignition of the paper in EN ISO 11925-2 results in a d<sub>2</sub> classification.  
<sup>h</sup> Pass = no ignition of the paper (no classification);  
Fail = ignition of the paper (d<sub>2</sub> classification).  
<sup>i</sup> Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.



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Xiamen Branch

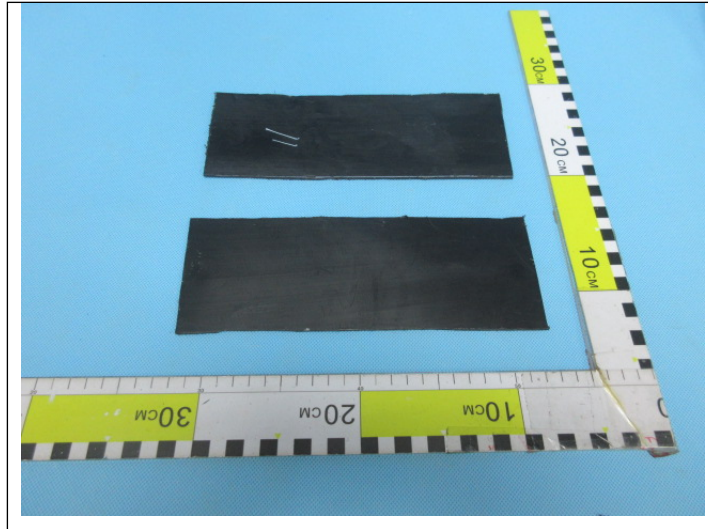
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### Photo Appendix:



SGS authenticate the photo on original report only



Product photo – provide by client



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Product photo – provide by client

According to client's statements the tested samples are used in their products shown in the product photos.

Remark: This test was subcontracted to Shunde Branch, SGS-CSTC Co., Ltd.

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



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