

HUIZHOU LIGHT ENGINE LIMITED
 NO.9 YUANHUI ROAD, CHENJIANG, ZHONGKAI HI-TECH INDUSTRIAL DEVELOPMENT ZONE, HUIZHOU,
 GUANGDONG PROVINCE, PRC

Sample Description : DIFFUSER PLATE
 Manufacturer : HUIZHOU LIGHT ENGINE LIMITED
 Factory : HUIZHOU LIGHT ENGINE LIMITED

The above data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. results apply to the sample as received.

SGS Ref No. : GZES2012034081TX
 Sample Receiving Date : Dec.09, 2020
 Test Performing Date : Dec.09, 2020 to Dec.17, 2020

Test Result Summary

Test(s) Requested	Result(s)
BS 2782-0:2011 Methods of testing plastics – Part 0: Introduction – Annex B (Method 508A: Rating of burning, laboratory method (obsolescent) And the classification requirements in the Building Regulations 2019, Approved Document B “Fire Safety”	The submitted sample meets the Classification of TP(a) rigid.

Summary:

- For further details, please refer to the following page(s).

Signed for and on behalf of
 Shunde Branch
 SGS-CSTC Co., Ltd.

Ada Liu
 Approved signatory



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TESTS AND RESULTS

Test Method:

BS 2782-0:2011–Methods of testing plastics–Part 0: Introduction–Annex B
Method 508A: Rating of burning, laboratory method (obsolescent)

Test Results:

Specimen no.	Whether the flame to travel the 25mm mark (first mark)	If 25mm mark (first mark) reached, time(s)	If 25mm mark (first mark) not reached		Whether the flame to travel the 125mm mark (second mark)	If 125mm mark (second mark) reached, time(s)	The burning rate (mm/min)	Comment
			After flame time (s)	After glow time (s)				
1	No	N/A	0	0	No	N/A	N/A	#1
2	No	N/A	0	0	No	N/A	N/A	#1
3	No	N/A	0	0	No	N/A	N/A	#1

Remark:

- #1 – the flame does not reach the 25mm mark;
- #2 – the flame does not reach the 125mm mark but reach the 25mm mark;
- #3 – the flame reaches the 25mm and 125mm marks;
- N/A – Not applicable

The classification requirements in Appendix B of the Building Regulations 2019, Approved Document B “Fire Safety”:

Thermoplastic materials may be classified TP(a) rigid or TP(b) according to the following methods:

TP(a) rigid

- i. rigid solid uPVC sheet
- ii. solid (as distinct from double- or multi-skinned) polycarbonate sheet a minimum of 3mm thick
- iii. multi-skinned rigid sheet made from uPVC or polycarbonate that has a class 1 rating when tested to **BS 476-7**
- iv. any other rigid thermoplastic product, a specimen of which (at the thickness of the product as put on the market), when tested to **BS 2782-0** Method 508A, performs so that both:
 - the test flame extinguishes before the first mark
 - the duration of flaming or afterglow does not exceed 5 seconds following removal of the burner.

TP(b)

- i. rigid solid polycarbonate sheet products a maximum of 3mm thick, or multi-skinned polycarbonate sheet products that do not qualify as TP(a) by test
- ii. other products which, when a specimen of the material between 1.5 and 3mm thick is tested in accordance with **BS 2782-0** Method 508A, have a maximum rate of burning of 50mm/minute.

Conclusion:

When assessed in accordance with the criteria specified in Appendix B of the Building Regulations 2019, Approved Document B “Fire Safety”, the submitted sample meets the Classification of TP(a) rigid.

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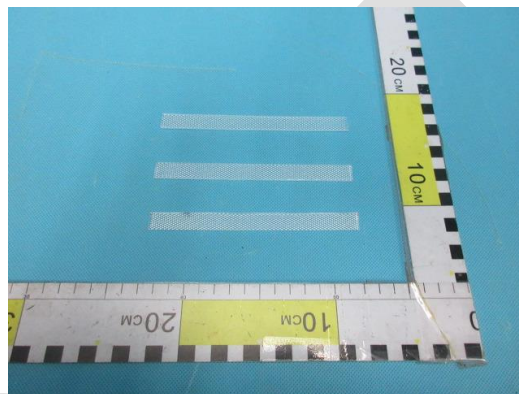


Statements:

These results relate only to the behaviour of the specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential smoke obscuration hazard of the product in use.

SAMPLE INFORMATION AND PICTURES

Thickness of the specimen: About 1.5mm



End of Report

DRAFT



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