

Test Report

Report Number: 161215003SHF-BP-1

Applicant Name: Yixing Hengchi Rub&Plastic Co., LTD.
Applicant Address: No.16 Jieke Road, Yixing, Jiangsu

Report Date: December 29, 2016

Attn: Qin Chen

Sample Description:

Wood Plastic Composites

Date Received : December 14, 2016

Date Test Conducted : December 25, 2016

Tests Conducted:

As requested by the applicant, for details refer to attached pages(s).

Conclusion:

For details refer to attached page(s).

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

The test was conducted in accordance with EN ISO 11925-2. This test evaluates the ignitability of a product under exposure to a small flame.

Class	Test Method(s)	Classification criteria	Additional classifications
B	EN 13823 and	FIGRA $\leq$ 120 W/s and LFS < edge of specimen and THR _{600s} $\leq$ 7.5 MJ	Smoke production ^a and Flaming droplets/particles ^b
	EN ISO 11925-2 ^c	F _s $\leq$ 150 mm within 60 s	

a. In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.

s1 = SMOGRA $\leq$ 30 m²/s² and TSP_{600s} $\leq$ 50 m²; s2 = SMOGRA $\leq$ 180 m²/s² and TSP_{600s} $\leq$ 200m²; s3 = not s1 or s2

b. d0 = no flaming droplets/ particles in EN 13823 within 600 s;

d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823-2010 within 600s;

d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

c. Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

Test Report**Report Number: 161215003SHF-BP-1****2 RESULTS AND OBSERATIONS**

The test results were shown in Table below.

Method	Parameter	Result
EN 13823:2010	FIGRA , W/s	64
	THR _{600s} , MJ	7.1
	LFS, m	<Edge of Specimen
	SMOGRA, m ² /s ²	1
	TSP _{600s} , m ²	19
	Flaming Droplets/ Particles	No flaming droplets/particles occur within 600s
EN ISO 11925-2:2010 Exposure=30 s	Fs, mm	32

Note:

1. This test was conducted at the external approved facility, located at Guangzhou.
2. The samples were tested free standing at a distance of 80 mm from a 9 mm thick calcium silicate board. The density of the calcium silicate board was 900 Kg/m³.

3 CLASSIFICATION

The classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

Fire behaviour		Smoke production			Flaming Droplets	
<i>B</i>	-	<i>s</i>	<i>1</i>	-	<i>d</i>	<i>0</i>

Reaction to fire classification: *B - s1, d0*

4 TEST PHOTOS



Long wing, before test



Short wing, before test

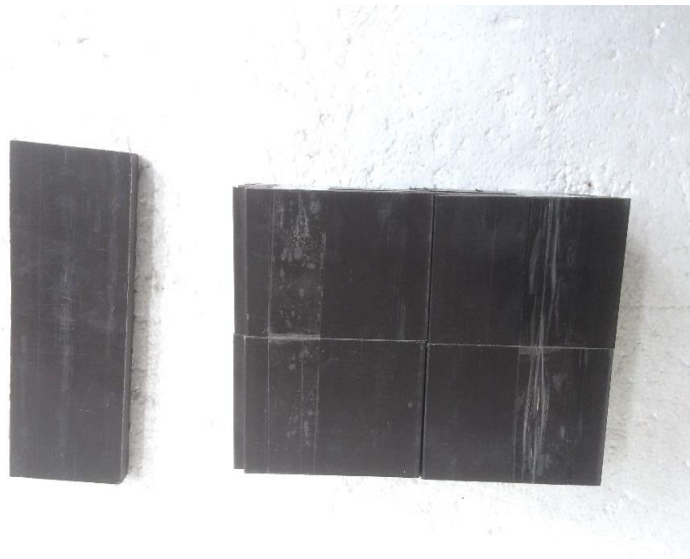


Long wing, after test



Short wing, after test

Appendix A: Sample received photo



Approved by:

Name: Sun Sun
Title : Approver

Name: Harrison Li
Title : Reviewer

Name: Vincent Jin
Title : Project Engineer

The End of Report

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.