

Test Report

Report No.: SCL01G066874

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Client : ETERNAL SYNTHETIC RRSINS(CHANGSHU)CO., LTD.

Address : 15XINGGANG ROAD,RIVERSIDE INDUSTRIAL PARK,CHANGSHU ECONOMIC DEVELOPMENT ZONE JIANGSU PROVINCE

Report on the submitted sample said to be:

Sample Name : 2929 p flame retardant polyester FRP sheets

Sample Type : 2929 p flame retardant polyester FRP sheets

Sample Material : Polyester glass fiber reinforced plastic

Sample Received Date : Dec. 29, 2014

Sample tested Date : Dec. 29, 2014~ Jan. 05, 2015

Test Requested:

Test Sequence	Test Item
1	Flammability

Test Results: Please see attached sheets.

Tested by: Jerry Peng

Reviewed by: Darcy

Approved by: Alina

Date: Jan. 05, 2015



Alina

Approved Signatory

Centre Testing International (Shenzhen) Co., Ltd.

No. R147478656

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Tested Sample:

Sample No.	Sample Name	Sample Type
A66874001	2929 p flame retardant polyester FRP sheets	2929 p flame retardant polyester FRP sheets

Sample Photo before the Test:

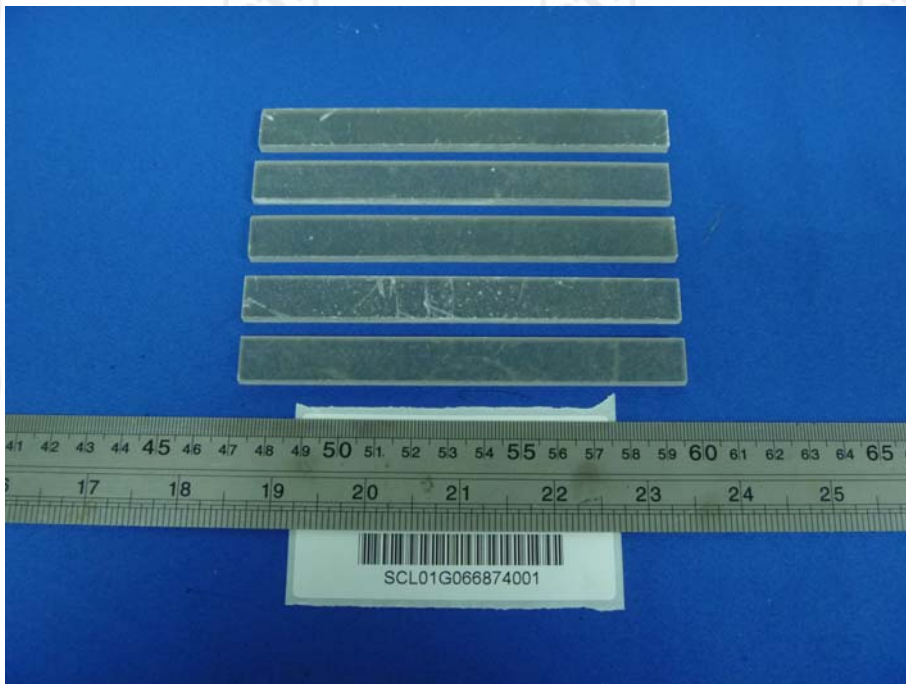


Fig1. Sample A66874001

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Test Item: Flammability

(1) Test Equipment:

Equipment Name	Model	Equipment Number	Valid Date to
Horizontal - vertical Flammability Test Instrument	RH-6033B	TTE20120134	Jun. 16,2015
Digital Caliper	0~200mm	BTTEIRFA00022	Jan. 21,2015

(2) Environmental Conditions:

Temperature: 21.2°C; Humidity: 54%RH

(3) Reference Standard: UL94-2013 Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

(4) Tested Process: Take picture→ set parameters of instrument→ start testing

(5) Tested Condition:

Preconditioning:

- ① Condition in environment of $23 \pm 2^\circ\text{C}$ and humidity of $50 \pm 5\%RH$ for 48h
- ② Condition in a 70°C oven for 168h, then a calcium chloride desiccators for at least 4h to cool to room temperature.

Test Procedure: Flame height: 20 ± 1 mm. Apply the flame centrally to the middle point of the specimen bottom edge so that the top of the burner is 10 ± 1 mm below the lower end of the specimen, and maintain it at that distance for 10 ± 0.5 s. After the application for 10 ± 0.5 s, immediately withdraw the burner at a rate of 300 mm/sec, to a distance at least 150 mm away from the specimen and measure the afterflame time t_1 . As soon as afterflaming of the specimen ceases, immediately place the burner again under the specimen for an additional 10 ± 0.5 s. After that, immediately remove the burner at a rate of 300 mm/sec to a distance of at least 150 mm from the specimen and measure the afterflame time t_2 and the afterglow time t_3 . Sample size: 125mm×13.0mm×4.3mm

Remark: The specimens were only pretreated with ①.

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(6) Test Criteria:

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

(7) Test Results:

Criteria conditions	1	2	3	4	5	V-0
Afterflame time for each individual specimen t_1 or t_2	0/0s	0/0s	0/0s	0/0s	0/0s	$\leq 10s$
Total afterflame time for any condition set(t_1 plus t_2 for the 5 specimens)	0s					$\leq 50s$
Afterflame plus afterglow time for each individual specimen after the second flame application($t_2 + t_3$)	0s	0s	0s	0s	0s	$\leq 30s$
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	No	No	No	No

Remarks: t_1 , t_2 are the afterflame time, t_3 is the afterglow time

Conclusion: This sample ambient test results comply with the requirements of UL94-2013 V-0.

*** End of Report ***

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