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TESTING
CNAS L1910

检测报告
Test Report

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报告抬头公司 赣州立昌新材料股份有限公司

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以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

样品名称	氟塑料
Sample Name	ETFE
样品接收日期	2023.07.17
Sample Received Date	Jul. 17, 2023
样品检测日期	2023.07.17-2023.07.21
Testing Period	Jul. 17, 2023-Jul. 21, 2023

批 准 **日 期** 2023.07.21

Approved by **Date** Jul. 21, 2023

林东杰

授权签字人

Approved Signatory

No. RA94EA9772

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检验检测专用章

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检测要求

Test Requested

序号 No.	测试项目 Test Item
1	燃烧性（水平燃烧） Flammability (Horizontal burning)
2	燃烧性（垂直燃烧）* Flammability (Vertical burning)*

检测结果：请参见后续页面。

Test Result(s): Please see the following pages.

测试样品

Tested Sample(s)

样品编号 Sample No.	样品名称 Sample Name
A2230298557201001	氟塑料 ETFE

样品图片

Sample Photo(s)



A2230298557201001

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测试项目 1：燃烧性（水平燃烧）
Test Item1: Flammability (Horizontal burning)

1. 测试设备 Test Equipment

设备名称 Equipment Name	型 号 Model
水平垂直燃烧试验仪 Horizontal - vertical Flammability Test Instrument	RH-6033B

2. 环境条件 Environmental Conditions

温度：23±2℃; 湿度：50±5%RH

Temperature: 23±2℃; Humidity: 50±5%RH

3. 测试标准 Test Standard: UL 94-2022

4. 测试条件

Test Condition

火焰高度要求是 20±1mm，点火时间 30±1s，火焰源倾斜 45°，样品夹持时与水平间保持 45°。

样品尺寸：128mm×13.5mm×1.48mm

HB 等级评定：

a) 燃烧距离 75mm，样品厚度 3.0~13mm,燃烧速度≤40mm/min；

b) 燃烧距离 75mm，样品厚度＜3.0mm,燃烧速度≤75mm/min；

c) 火焰在 100mm 标线之前停止；

d) 燃烧距离 75mm，样品厚度在 3.0mm +0.2mm，燃烧速度≤40mm/min，那么降至 1.5mm 最小厚度时，就应自动地接受为该级。

source tilt 45 °, with the level of the sample holder maintained between 45 °.

Sample Size: 128mm×13.5mm×1.48mm

HB Criteria:

a) Not have a burning rate exceeding 40mm per minute over a 75mm span for specimens having a thickness of 3.0~13mm, or

b) Not have a burning rate exceeding 75mm per minute over a 75mm span for specimens having a thickness less than 3.0mm, or

c) Cease to burn before the 100mm reference mark.

d) A material classified HB in the 3.0 + 0.2 mm thickness shall automatically be classed HB down to a 1.5 mm minimum thickness without additional testing.

5. 测试结果 Test Result(s)

测试样品 Test Sample		测试结果 Test Results（mm/min）
A2230298557201001	1	火焰在 25mm 标线前熄灭 Flame self-extinguish before 25mm reference mark
	2	火焰在 25mm 标线前熄灭 Flame self-extinguish before 25mm reference mark
	3	火焰在 25mm 标线前熄灭 Flame self-extinguish before 25mm reference mark

结论：此样品符合 UL 94-2022 HB 等级燃烧要求。

Conclusion: The samples comply with the requirements of UL 94-2022 HB.

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测试项目 2：燃烧性（垂直燃烧）*
Test Item2: Flammability (Vertical burning)*

1. 测试设备 Test Equipment

设备名称 Equipment Name	型 号 Model
水平垂直燃烧试验仪 Horizontal - vertical Flammability Test Instrument	RH-6033B

2. 环境条件 Environmental Conditions

温度: 23±2℃; 湿度：50±5%RH

Temperature: 23±2℃; Humidity: 50±5%RH

3. 测试标准 Test Standard: UL 94-2022

4. 测试条件

Test Condition

预处理：

①在 23±2℃，50±10%RH 环境条件放置 48h；

②70℃老化 168h，然后在干燥器中放置至少 4h 冷却至室温。

测试步骤：火焰高度 20±1 mm，本生灯置于样品下方正中心位置，本生灯管口距样品底端 10±1mm，点火时间为 10±0.5s，点火 10±0.5s 后以 300 mm/sec 的速度移开本生灯至少 150 mm，同时开始记录余焰时间 t_1 ，余焰停止时应立即点燃 10±0.5s，点火 10±0.5s 后以 300 mm/sec 的速度移开本生灯至少 150 mm，同时记录余焰时间 t_2 和余燃时间 t_3 。

样品尺寸：128mm×13.5mm×1.48mm

备注：此样品只进行了①条件处理。

Preconditioning:

①Condition in environment of 23±2℃and humidity of 50±10 %RH for 48h

②Condition in a 70 ℃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 ±0.5s. After the application for 10 ±0.5s, 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 after flame time t_1 . As soon as after flaming of the specimen ceases, immediately place the burner again under the specimen for an additional 10 ±0.5s. 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 after flame time t_2 and the afterglow time t_3 .

Sample size: 128mm×13.5mm×1.48mm

Remark: The specimens were only pretreated with ①.

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5. 测试结果 Test Result(s)

评判标准：

判定条件	V-0	V-1	V-2
每个独立的样品燃烧持续的时间t_1和t_2	≤10s	≤30s	≤30s
对任意处理组的五个样品的总的燃烧持续时间(t_1+t_2)	≤50s	≤250s	≤250s
在第二次火焰施加后，每个独立的样品燃烧持续时间和灼热燃烧时间(t_2+t_3)	≤30s	≤60s	≤60s
任一样品持续燃烧和灼热燃烧是否到夹持样品的夹子处	否	否	否
燃烧颗粒或滴落物是否引燃脱脂棉	否	否	是

Test Criteria:

Criteria conditions	V-0	V-1	V-2
Afterflame time for each individual specimen t_1 and t_2	≤10s	≤30s	≤30s
Total afterflame time for any condition set (t_1 plus t_2 for the 5 specimens)	≤50s	≤250s	≤250s
Afterflame plus afterglow time for each individual specimen after the second flame application(t_2+t_3)	≤30s	≤60s	≤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

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测试结果：

判定条件	1	2	3	4	5	V-0
每个独立的样品燃烧持续的时间t_1和t_2	0/1s	0/6s	0/1s	0/1s	0/0s	≤10s
对任意处理组的五个样品的总的燃烧持续时间(t_1+t_2)	9s					≤50s
在第二次火焰施加后，每个独立的样品燃烧持续时间和灼热燃烧时间(t_2+t_3)	1s	6s	1s	1s	0s	≤30s
任一样品持续燃烧和灼热燃烧是否到夹持样品的夹子处	否	否	否	否	否	否
燃烧颗粒或滴落物是否引燃脱脂棉	否	否	否	否	否	否

结论：此样品常温测试结果符合 UL 94-2022 V-0 的要求。

备注：t_1，t_2 为余焰时间，t_3 为余燃时间。

Test Results:

Criteria conditions	1	2	3	4	5	V-0
Afterflame time for each individual specimen t_1 and t_2	0/1s	0/6s	0/1s	0/1s	0/0s	≤10s
Total afterflame time for any condition set(t_1 plus t_2 for the 5 specimens)	9s					≤50s
Afterflame plus afterglow time for each individual specimen after the second flame application(t_2+t_3)	1s	6s	1s	1s	0s	≤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

Conclusion: This sample ambient test results comply with the requirements of UL 94-2022 V-0.

Remark: t_1, t_2 are the afterflame time, t_3 is the afterglow time.

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