

测试报告

编号 : GZIN1801003534CM_CN

日期 : 2018-02-02

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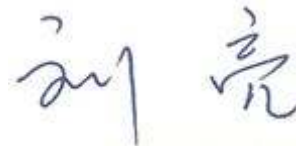
客户名称: 广州星和铝塑制品有限公司
客户地址: 广州南沙区东涌镇鱼窝头马克工业区

样品名称 : 铝塑板
生产商 : 广州星和铝塑制品有限公司

以上信息及样品由客户提供及确认, SGS 不承担证实客户提供信息的准确性、适当性和(或)完整性的责任。

收样日期 : 2018-01-19
测试开始时间 : 2018-01-19
测试结束时间 : 2018-02-02
测试结果 : 请见下页 (除另有特别说明外, 此报告结果仅对测试样品负责)

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授权签名



刘亮

授权签字人



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测试项目

测试要求	结果
EN 13501-1:2007+A1:2009 建筑材料和及制品燃烧性能分级 第一部分: 依据燃烧性能进行分级	燃烧等级: B-s1, d0



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测试和结果

测试依据:

EN 13501-1:2007+A1:2009 建筑材料和及制品燃烧性能分级 第一部分: 依据燃烧性能进行分级。
具体测试方法如下:

1. EN 13823:2010+A1:2014 建筑制品燃烧试验-建筑材料(除地面材料外)的单体燃烧试验
2. EN ISO 11925-2:2010+AC:2011 燃烧试验-用指定的火焰点燃建筑制品-第二部分: 小火焰试验

安装和固定 (EN 13823:2010+A1:2014) :

测试样品在离背板最少 80mm 处自由直立, 上下端被固定住。

测试结果:

测试方法	参数	样品数量	结果
EN 13823:2010+A1:2014	FIGRA _{0.2MJ} (W/s)	3	32.7
	THR _{600s} (MJ)		0.9
	SMOGRA (m ² /s ²)		0.9
	TSP _{600s} (m ²)		7.6
	LFS < 试样边缘 (是/否)		是
	燃烧滴落物 / 微粒 (是/否)		否
EN ISO 11925-2:2010+AC:2011 点火时间 = 30 s	焰尖高度F _s ≤150 mm (是/否)	12	是
	过滤纸是否点燃		否



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备注:

FIGRA -- 用于分级的燃烧增长率指数 [W/s]
 对于 A2 级和 B 级, FIGRA= FIGRA_{0.2MJ}
 对于 C 级和 D 级, FIGRA= FIGRA_{0.4MJ}
 LFS – 火焰横向蔓延长度[m]
 THR_{600s} -- 时间为 600 秒时的总放热量[MJ]
 SMOGRA -- 烟气生成速率[m²/s²]
 TSP_{600s} -- 时间为 600 秒时的总烟气产生量[m²]

分级依据:

分级要求按照 EN 13501-1:2007+A1:2009.

评级:

燃烧等级		烟生成等级			燃烧熔滴等级	
B	—	s	1	,	d	0

备注:

评级和相应的防火性能参考下面表 1。

燃烧性能共分七个等级, 包括 A1,到 F, 其中 A1 级为最高的等级, F 级为最低的等级。

声明:

本测试结果是产品试样在特定条件下的测试结果, 它不能作为评估该产品的防火性能唯一的标准。

警告:

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表 1 建筑材料及制品 (铺地材料和管道保温材料除外) 燃烧性能分级

等级	试验标准		分级判据	附加分级
A1	EN ISO 1182 ^a	且	$\Delta T \leq 30^{\circ}\text{C}$, 且 $\Delta m \leq 50\%$, 且 $t_f = 0$ (无持续燃烧)	-
	EN ISO 1716		$PCS \leq 2.0\text{MJ/kg}$ ^a 且 $PCS \leq 2.0\text{MJ/kg}$ ^{b,c} 且 $PCS \leq 1.4\text{MJ/m}^2$ ^d 且 $PCS \leq 2.0\text{MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a 或	且	$\Delta T \leq 50^{\circ}\text{C}$, 且 $\Delta m \leq 50\%$, 且 $t_f \leq 20\text{ s}$	-
	EN ISO 1716		$PCS \leq 3.0\text{MJ/kg}$ ^a 且 $PCS \leq 4.0\text{MJ/m}^2$ ^b 且 $PCS \leq 4.0\text{MJ/m}^2$ ^d 且 $PCS \leq 3.0\text{MJ/kg}$ ^e	-
	EN 13823		$FIGRA \leq 120\text{W/s}$ 且 $LFS < \text{试样边缘}$ 且 $THR_{600s} \leq 7.5\text{MJ}$	产烟量 ^f 且 燃烧滴落物/微粒 ^g
B	EN 13823	且	$FIGRA \leq 120\text{W/s}$ 且 $LFS < \text{试样边缘}$ 且 $THR_{600s} \leq 7.5\text{MJ}$	产烟量 ^f 且 燃烧滴落物/微粒 ^g



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	EN ISO 11925-2 ¹ 点火时间 =30s	60 s 内 $F_s \leq 150\text{mm}$	
C	EN 13823 且	$FIGRA \leq 250\text{W/s}$ 且 $LFS < \text{试样边缘}$ 且 $THR_{600s} \leq 15\text{MJ}$	产烟量 ^f 且 燃烧滴落物/ 微粒 ^g
	EN ISO 11925-2 ¹ 点火时间 =30s	60 s 内 $F_s \leq 150\text{mm}$	
D	EN 13823 且	$FIGRA \leq 750\text{W/s}$	产烟量 ^f 且 燃烧滴落物/ 微粒 ^g
	EN ISO 11925-2 ¹ 点火时间 =30s	60 s 内 $F_s \leq 150\text{mm}$	
E	EN ISO 11925-2 ¹ 点火时间 =15s	20 s 内 $F_s \leq 150\text{mm}$	燃烧滴落物/ 微粒 ^h
F	无性能要求		

^a 均质制品和非均质制品的主要组分;

^b 非均质制品的外部次要组分

^c 另一个可选择的判据是: 对 $PCS \leq 2,0 \text{ MJ/m}^2$ 的外部次要组分, 则要去满足 EN 13823 中 $FIGRA \leq 20 \text{ W/s}$ 、 $LFS < \text{试样边缘}$ 、 $THR_{600s} \leq 4,0 \text{ MJ}$ 、 s_1 和 d_0 ;

^d 非均质制品的任一内部次要组分;

^e 整体制品;

^f 在试验程序的最后阶段, 需要对烟气测量系统进行调整, 烟气测量系统的影响需进一步研究。由此导致评价产烟量的参数或极限值的调整。

$s_1 = \text{SMOGRA} \leq 30\text{m}^2/\text{s}^2$ 且 $\text{TSP}_{600s} \leq 50\text{m}^2$; $s_2 = \text{SMOGRA} \leq 180\text{m}^2/\text{s}^2$ 且 $\text{TSP}_{600s} \leq 200\text{m}^2$; $s_3 =$ 未达到 s_1 或 s_2 ;

^g $d_0 =$ 按照 EN13823 规定, 600s 内无燃烧滴落物/微粒;

$d_1 =$ 按照 EN13823 规定, 600s 内无燃烧滴落物/微粒, 持续燃烧时间不超过 10s;

$d_2 =$ 未达到 d_0 或 d_1 ;

按照 EN ISO 11925-2 规定, 过滤纸被引燃, 则该制品为 d_2 级;

^h 通过 = 过滤纸未被引燃; ;

未通过 = 过滤纸被引燃 (d_2 级);



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¹ 火焰轰击该制品的表面和（如果适合该制品的最终应用）边缘。

样品信息和图片

厚度: 约 4mm

面密度: 约 7.49kg/m²



测试前 (EN 13823)



测试后 (EN 13823)

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