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CNAS L7877

检测报告

编号: SDFS2207004503FF-01_CN 日期: 2022-08-05 页码: 第 1 页共 6 页

广东红波新材料集团有限公司
佛山市三水区乐平镇中心科技工业区规划南边 B 小区 7 号 (F9)

样品描述 : 高耐候彩涂板
生产商 : 佛山市优涂新材料科技有限公司
品牌 : FOONET

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测试项目

测试要求	结果
GB 8624-2012 建筑材料及制品燃烧性能分级 条款 5.1.1 中表 2 平板状建筑材料及制品燃烧性能等级和分级判据	燃烧性能等级: A (A2-s1,d0)
概要: 1 详细测试结果请看附页	

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测试和结果

测试依据:

GB 8624-2012 建筑材料及制品燃烧性能分级。条款 5.1.1 中表 2 平板状建筑材料及制品燃烧性能等级和分级判据具体测试方法如下:

1. GB/T 14402-2007 建筑材料及制品的燃烧性能燃烧热值的测定;
2. GB/T 20284-2006 建筑材料或制品的单体燃烧试验。

GB/T 20284 安装和固定:

测试样品用螺钉固定在基材上(基材为硅酸钙板,满足标准要求,其密度为 900kg/m^3 ,厚度 10mm)。样品之间无接缝,样品基材与背板间距至少 80mm 。

测试结果:

测试方法	参数	样品数量	结果
GB/T 14402-2007	整体制品 ^e : -PCS (MJ/kg)	3	0.3
	面漆 ^b : -PCS (MJ/m ²)		0.7
	金属板 ^a : -PCS (MJ/kg)		0*
	背漆 ^b : -PCS (MJ/m ²)		0.2
GB/T 20284-2006	FIGRA _{0.2MJ} (W/s)	3	0.0
	FIGRA _{0.4MJ} (W/s)		0.0
	LFS < 试样边缘		是
	THR _{600s} (MJ)		0.2
	SMOGR _A (m ² /s ²)		0.8
	TSP _{600s} (m ²)		23.2
	600s 内是否有燃烧滴落物/颗粒物; 若有, 燃烧时间: ($\leq 10\text{s}$ / $>10\text{s}$)		否

备注:

PCS-燃烧总热值[MJ/kg 或 MJ/m²];

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]

SMOGR_A-烟气生成速率[m²/s²]

TSP_{600s}-时间为 600 秒时的总烟气产生量[m²]

*-依据 GB/T14402-2007 条款 8.4.1, 金属成分不需要测试, 计算时将其热值设为 0。



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燃烧性能等级:

根据 GB 8624-2012, 建筑材料及制品的燃烧性能等级, 依据条款 5.1.1 中表 2 平板状建筑材料及制品燃烧性能等级和分级判据。

结论:

根据测试结果及燃烧性能等级判据, 燃烧性能标识为: GB 8624 A (A2-s1, d0);

样品符合 GB 8624-2012 平板状建筑材料及制品燃烧性能等级和分级判据的 A 级。

表 2 平板状建筑材料及制品的燃烧性能等级和分级判据

燃烧性能等级	试验方法	分级判据
A	A1	GB/T 5464 ^a 且 炉内温升 $\Delta T \leq 30^\circ\text{C}$; 质量损失率 $\Delta m \leq 50\%$; 持续燃烧时间 $t_r = 0$
		GB/T 14402 总热值 $\text{PCS} \leq 2.0 \text{ MJ/kg}$ ^{a, b, c, e} ; 总热值 $\text{PCS} \leq 1.4 \text{ MJ/m}^2$ ^d
	A2	GB/T 5464 ^a 或 且 炉内温升 $\Delta T \leq 50^\circ\text{C}$; 质量损失率 $\Delta m \leq 50\%$; 持续燃烧时间 $t_r \leq 20 \text{ s}$
		GB/T 14402 总热值 $\text{PCS} \leq 3.0 \text{ MJ/kg}$ ^{a, e} ; 总热值 $\text{PCS} \leq 4.0 \text{ MJ/m}^2$ ^{b, d}
		GB/T 20284 燃烧增长速率指数 $\text{FIGRA}_{0.2 \text{ MJ}} \leq 120 \text{ W/s}$; 火焰横向蔓延未到达试样长翼边缘; 600s 的总放热量 $\text{THR}_{600\text{s}} \leq 7.5 \text{ MJ}$
B ₁	B	GB/T 20284 且 燃烧增长速率指数 $\text{FIGRA}_{0.2 \text{ MJ}} \leq 120 \text{ W/s}$; 火焰横向蔓延未到达试样长翼边缘; 600s 的总放热量 $\text{THR}_{600\text{s}} \leq 7.5 \text{ MJ}$
		GB/T 8626 点火时间 30s 60 s 内焰尖高度 $F_s \leq 150 \text{ mm}$; 60 s 内无燃烧滴落物引燃滤纸现象
	C	GB/T 20284 且 燃烧增长速率指数 $\text{FIGRA}_{0.4 \text{ MJ}} \leq 250 \text{ W/s}$; 火焰横向蔓延未到达试样长翼边缘; 600s 的总放热量 $\text{THR}_{600\text{s}} \leq 15 \text{ MJ}$
		GB/T 8626 点火时间 30s 60 s 内焰尖高度 $F_s \leq 150 \text{ mm}$; 60 s 内无燃烧滴落物引燃滤纸现象
B ₂	D	GB/T 20284 且 燃烧增长速率指数 $\text{FIGRA}_{0.4 \text{ MJ}} \leq 750 \text{ W/s}$
		GB/T 8626 点火时间 30s 60 s 内焰尖高度 $F_s \leq 150 \text{ mm}$; 60 s 内无燃烧滴落物引燃滤纸现象
	E	GB/T 8626 点火时间 15s 20 s 内的焰尖高度 $F_s \leq 150 \text{ mm}$; 20 s 内无燃烧滴落物引燃滤纸现象
B ₃	F	无性能要求



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- a 匀质制品或非匀质制品的主要组分。
 b 非匀质制品的外部次要组分。
 c 当外部次要组分的 $PCS \leq 2.0 \text{ MJ/m}^2$ 时, 若整体制品的 $FIGRA_{0.2 \text{ MJ}} \leq 20 \text{ W/s}$ 、 $LFS < \text{试样边缘}$ 、 $THR_{600s} \leq 4.0 \text{ MJ}$ 并达到s1和d0级, 则达到A1级。
 d 非匀质制品的任一内部次要组分。
 e 整体制品。

表 B.1 产烟特性等级和分级判据

产烟特性等级	试验方法	分级判据
s1	GB/T 20284	烟气生成速率指数 $SMOGRA \leq 30 \text{ m}^2/\text{s}^2$; 试验600s 总烟气生成量 $TSP_{600s} \leq 50 \text{ m}^2$
s2		烟气生成速率指数 $SMOGRA \leq 180 \text{ m}^2/\text{s}^2$; 试验600s 总烟气生成量 $TSP_{600s} \leq 200 \text{ m}^2$
s3		未达到s2

表 B.2 燃烧滴落物/微粒等级和分级判据

燃烧滴落物/微粒等级	试验方法	分级判据
d0	GB/T 20284	600s内无燃烧滴落物/微粒
d1		600s内燃烧滴落物/微粒, 持续时间不超过10s
d2		未达到d1

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样品信息和图片

测试样品的厚度: 0.6mm
 测试样品的密度: 3.22kg/m²
 ★面漆的密度: 0.0567kg/m²
 ★金属板的密度: 3.14kg/m²
 ★背漆的密度: 0.02kg/m²
 ★用途: 屋顶

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测试后 (GB/T 20284)



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背漆

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