

## 测试报告

报告号: **AJHG1509008552FB\_CN**

日期: **2015年10月20日** 第 1 页 共 10 页

长兴合成树脂(常熟)有限公司 / 长兴材料工业股份有限公司(路竹厂)

江苏省常熟开发区沿江工业兴港路15号 / 高雄市路竹区后乡里长兴路22号

此报告是报告号为 **AJHG1509008552FB** 的中文译本, 如中英文有差异, 概以英文为准。

以下测试样品为客户提供并确认

**样品描述:** ETERSET 2901PTI 聚酯玻璃钢

**成分:** ETERSET 2901PTI、玻纤

### 测试要求:

BS 6853:1999 (包含修正 1) — 客运列车设计和建造防火条例, 条款 6.2 火反应控制, 表格 2-车内垂直表面

**测试结果:** -- 参见数据附表 --

### 测试持续时间

样品收到日期 : 2015年10月10日

测试执行时间 : 2015年10月10日至2015年10月19日

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邹石龙  
技术经理



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样品信息

样品描述	ETERSET 2901PTI 聚酯玻璃钢
颜色	米色
厚度	大约 3mm

1. BS 476-6:1989 + A1:2009

I. 测试方法

测试根据 BS 476 - 6:1989 + A1:2009 —建筑材料的对火反应测试—第六部分: 制品火焰增长测试。

II. 测试细节

预调节:

测试前, 样品放置于温度为  $23 \pm 2 \text{ }^\circ\text{C}$  , 相对湿度为  $50 \pm 5 \%$  的环境中至质量平衡, 并且保持在此环境中到测试。

暴露面: 任意面

试样尺寸: 大约 225mm×225mm

被测样品的形式: 材料

III. 测试结果

在测试期间, 仔细观察每个试样的行为, 特别注意在标准9.2条款中提到的现象。若这些现象都没有观察到, 则测试结果有效。

测定的样品性能指数如下:

$$S_1 = \sum_{t=0.5}^{t=3} \frac{\theta_s - \theta_c}{10t}, S_2 = \sum_{t=4}^{t=10} \frac{\theta_s - \theta_c}{10t}, S_3 = \sum_{t=12}^{t=20} \frac{\theta_s - \theta_c}{10t}, S = S_1 + S_2 + S_3$$

其中:

S=试样的总性能指数, S1, S2 和 S3为分指数

t = 试验时间

$\theta_s$  = 试样的温升 (°C)

$\theta_c$  = 校准时的温升 (°C)

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## 测试报告

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火焰增长指数  $I = i_1 + i_2 + i_3$

$i_1$ ,  $i_2$  和  $i_3$  由以下表达式得出:

$$i_1 = \frac{1}{3}[(S_1)_A + (S_1)_B + (S_1)_C], \quad i_2 = \frac{1}{3}[(S_2)_A + (S_2)_B + (S_2)_C], \quad i_3 = \frac{1}{3}[(S_3)_A + (S_3)_B + (S_3)_C]$$

以下为每个样品的测试结果:

.样品编号	材料性能分指数			总性能指数
	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S
A	2.63	1.47	0.64	4.74
B	2.89	1.64	0.73	5.26
C	2.52	1.66	0.69	4.87

样品数量	分指数 $i_1$	分指数 $i_2$	分指数 $i_3$	火焰增长指数I
3	2.68	1.59	0.69	4.96

## 2. BS 476 - 7:1997+AC:2014

### I. 测试方法

测试根据 BS 476-7:1997+AC:2014—建筑材料的对火反应测试—第七部分: 制品表面火焰传播速度分级方法。

### II. 测试细节

#### 条件:

测试前, 样品放置于温度为  $23 \pm 2 \text{ }^\circ\text{C}$ , 相对湿度为  $50 \pm 10 \%$  的环境中至质量平衡, 并且保持在此环境中到测试。

**暴露面:** 任意面

**试样尺寸:** 大约 885mm×270mm

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III. 测试结果

样品编号	1	2	3	4	5	6
距离 (mm)	火焰传播到指定距离的时间 (分:秒)					
75	--	--	--	--	--	--
165	--	--	--	--	--	--
190	--	--	--	--	--	--
215	--	--	--	--	--	--
240	--	--	--	--	--	--
265	--	--	--	--	--	--
290	--	--	--	--	--	--
375	--	--	--	--	--	--
455	--	--	--	--	--	--
500	--	--	--	--	--	--
520	--	--	--	--	--	--
600	--	--	--	--	--	--
675	--	--	--	--	--	--
710	--	--	--	--	--	--
750	--	--	--	--	--	--
785	--	--	--	--	--	--
825	--	--	--	--	--	--
1.5 分钟时达到的最大距(mm)	<50	<50	<50	<50	<50	<50
测试期间达到的最大距离 (mm)	<50	<50	<50	<50	<50	<50
火焰传播到最大距离时的时间	1min	1min	1min	1min	1min	1min

备注: “--” 表示没有达到参考线

备注: 测试需 6 个样品。按照标准的要求, 测试试样中如果任何一个被认为是无效的情况下, 允许增加测试试样, 最多测试 9 个, 以获得 6 个有效的测试结果。

BS 476-7:1997+AC:2014 中定义的级别要求见附录 1。

观察记录: 无

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### 分类标准:

若等级标有前缀“D”或者后缀“R”或“Y”，则该结果需慎重对待。在附录 2 中给出前缀及后缀的解释。

### 附录1火焰传播分级

分级	在 1.5 分钟时的火焰传播		最终火焰传播	
	距离限制 (mm)	单个试样的限制 (mm)	距离限制 (mm)	单个试样的限制 (mm)
class1	165	165+25	165	165+25
class2	215	215+25	455	455+25
class3	265	265+25	710	710+25
class4	超过 class3 的限制			

### 附录 2 有关等级后标注的前缀及后缀的解释

- 如果需要从大于6个试样中得出6个有效测试结果，则需标注后缀R (如: class 2R)。
- 如果样品不符合标准规定的表面特性要求，而是通过特定模式在完成测试的，则需标注前缀D (如: class D3)。
- 如果有软化之类的现象影响火焰的传播，则需标注后缀Y。

**分级:** 根据BS 476-7:1997+AC:2014的分级标准，该被测样品被定为**Class 1**级。

## 3. BS 6853:1999 附录 B.2

### I. 测试程序

本测试根据 BS 6853:1999 (包含修正 1) — 客运列车设计和建造防火条列，附录 B.2(资料性附录)，烟气毒性加权值 R 的测定 (面积法) 中规定的程序进行；

除了点火源按照 BS EN ISO 5659-2 的规定外，烟气制取采用 prEN 2824 规定的设备。烟气定量分析方法采用 prEN 2826 推荐的程序进行。

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## 测试报告

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日期: 2015年10月20日 第6页共10页

### II. 预处理

测试前, 测试样品在 $23\pm 2^{\circ}\text{C}$  温度和 $50\pm 5\%$ 的相对湿度下至少处理24小时。

暴露面

任意面

试样尺寸: 76mm×76mm

### III. 测试结果

1) 一个试样用来确定  $D_{smax}$  和到达  $D_{smax}$  的时间, 进而计算到达 85%  $D_{smax}$  的时间。结果如下:

Ds max	23.3
到达 $D_{smax}$ ( $T_{max}$ )的时间	20min
到达 85% of $D_{smax}$ ( $T_m, 85\%$ )的时间	16.2min

2) 在上述试验的基础上再进行 3 次测试。根据上述测试, 试样在测试进行到 16.2min 时达到 85%  $D_{smax}$ , 因此, 在 16.2min 时取样进行气体分析, 测试结果如表 1 所示。

表 1

气体	样品 1	样品 2	样品 3	平均值
二氧化碳 ( $\text{CO}_2$ )	1137.0	1421.25	1263.34	1273.86
一氧化碳 (CO)	9.04	15.07	12.06	12.06
氟化氢 (HF)	ND	ND	ND	--
氯化氢 (HCl)	ND	ND	ND	--
溴化氢 (HBr)	ND	ND	ND	--
氰化氢(HCN)	ND	ND	ND	--
二氧化氮 ( $\text{NO}_2$ )	0.5	0.5	0.33	0.44
二氧化硫 ( $\text{SO}_2$ )	ND	ND	ND	--

其中ND 表示未探测到。

备注: 所有值单位为 $\text{g}/\text{m}^2$ 。

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## 计算毒性指数加权值 R

根据BS 6853:1999, B.4.2 的程序, 利用毒性气体定量测试的结果计算加权值, R; 气体的基准值见表 2.

$$r_x = \frac{C_x}{f_x}, \quad R = \sum r$$

其中,

$C_x$ , 第x种气体测量值, 按适当的单位;

$f_x$ , 第x种气体基准值, 见表2;

$r_x$ , 第x种气体加权值.

表 2

气体	基准值, f mg/g, or g/m <sup>2</sup>
二氧化碳 (CO <sub>2</sub> )	14 000
一氧化碳 (CO)	280
氟化氢 (HF)	4.9
氯化氢 (HCl)	15
溴化氢 (HBr)	20
氰化氢(HCN)	11
二氧化氮 (NO <sub>2</sub> )	7.6
二氧化硫 (SO <sub>2</sub> )	53

计算得: **R = 0.19**

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## 测试报告

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日期: 2015年10月20日 第8页共10页

### 4. BS 6853:1999 附录 D 8.4

#### I. 测试程序

本测试根据 BS 6853:1999 (包含修正 1) — 客运列车设计和建造防火条列, 附录 D 8.4 烟密度测试方法— 面板法进行。

#### II. 预处理

测试前, 试样在室内环境中放置72小时, 然后在温度为 $23\pm 2^{\circ}\text{C}$  和相对湿度为 $50\pm 5\%$ 的环境下调节至少16小时。

#### 暴露面

任意面

试样尺寸: 大约 1000mm×500mm

#### III. 测试结果

根据方程:  $A_0 = A_m \times V / (K \times l)$  计算  $A_0$

其中,  $A_m$  测试箱中的光密度;

$V$  测试箱体积, 单位立方米, 这里为  $27 \text{ m}^3$ ;

$l$  测试箱中光程, 单位米, 这里为  $3 \text{ m}$ ;

$k$  构成单位测试料的数量,  $k = 1$

样品编号	$A_m(\text{ON})$	$A_m(\text{OFF})$	$V$	$k$	$l$	$A_0(\text{ON})$	$A_0(\text{OFF})$
1 <sup>st</sup>	0.287	0.303	27	1	3	2.583	2.727
2 <sup>nd</sup>	0.275	0.289	27	1	3	2.475	2.601
AVG						2.529	2.664

BS 6853:1999 规定的相关要求见附录 1。

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# 测试报告

报告号: **AJHG1509008552FB\_CN**

日期: **2015年10月20日** 第 **9** 页 共 **10** 页

附录 1 BS 6853:1999 包含修正 1 规定的燃烧性能要求

BS 6853:1999 表 2 车内垂直表面

测试方法	参数	车辆类型		
		I <sub>a</sub>	I <sub>b</sub>	II
BS 476-6	i <sub>1</sub> (max.) I (max.)	6 (VL 表面: nc) 12 (VL 表面: nc)	6 (VL 表面: nc) 12 (VL 表面: nc)	nc nc
BS 476-7	火焰表面传播 (最差级别要求)	Class 1 (VL 表面: class 2)	Class 1 (VL 表面: class 2)	Class 1 (VL 表面: class 2)
附录 D 面板测试	A <sub>0</sub> (ON)	2.6	4.2	9.4
	A <sub>0</sub> (OFF)	3.9	6.3	14.0
附录 B	R (max.)	1.0	1.6	3.6

nc: 无指定要求;  
注 A<sub>0</sub> 的值为最大值。

**结论:** 根据试验结果, 该试样符合BS 6853:1999 包含修正1中规定的关于车内垂直表面I<sub>a</sub>, I<sub>b</sub>, II类别客运列车的要求。

### 声明:

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测试所得结果仅适用于被测试样。产品的成分或厚度的变化都可能影响其在测试中的表现, 导致测试结果无效。因此应保证提供用作测试的试样充分代表实际产品。

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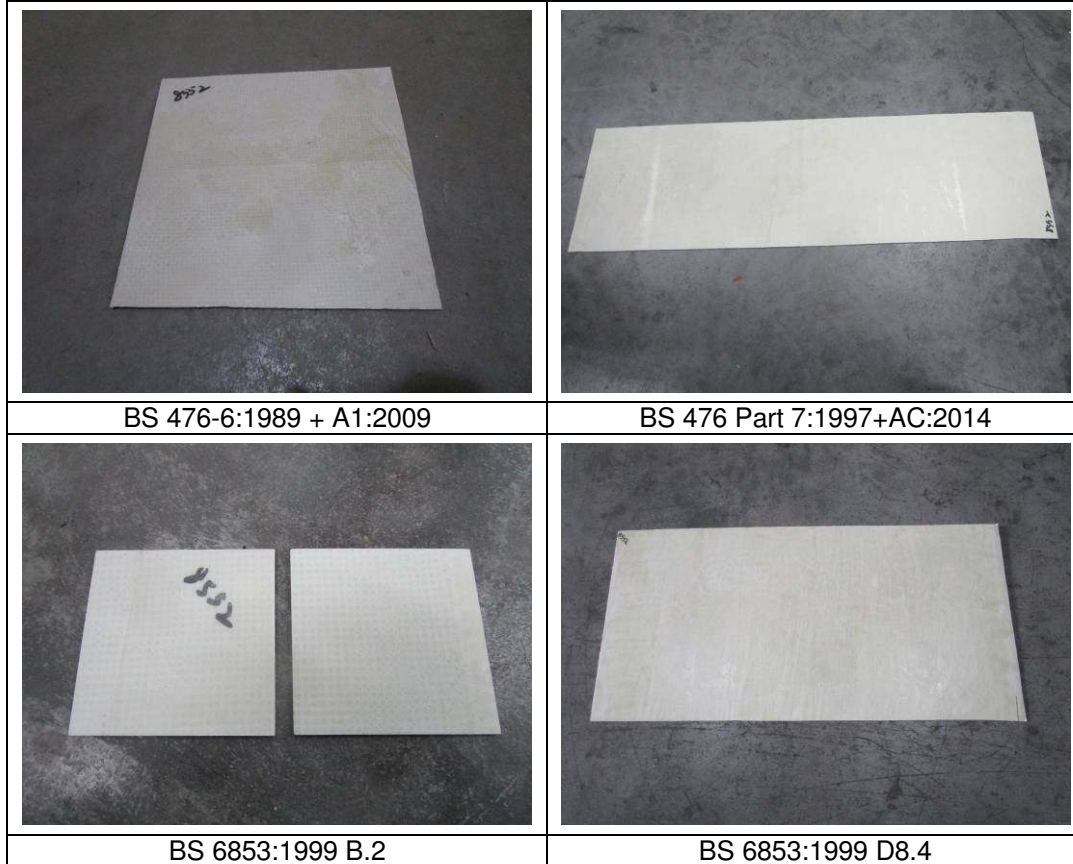
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