

### 编号 : GZIN161001906CCM\_CN

- 日期 : 2016.11.23
- 页码 :1 of 41

- 客户名称: 佛山市纬仑装饰材料有限公司
- 客户地址: 佛山市顺德区大良街道新滘工业区创业路2号

下列样品由客户提供及确认:

样品名称	:	铝塑板
SGS 参考编号	:	GZIN161001906CCM
生产商	:	纬仑
测试要求	:	根据客户要求选择测试
收样日期	:	2016年10月25日
测试周期	:	2016年10月25日至2016年11月07日
测试结果	:	请见下页。
		******待续*****

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薛锦培

授权签字人

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#### 结果总结:

序号	测试项目	测试方法	结果	结论
1	耐磨性能	ASTM D4060-14	质量损失: 37mg	/
2	涂膜附着力	ASTM D3359-09 <sup>ε2</sup> 方法 B	附着力等级:5B	/
3	涂膜厚度	ASTM D7091-13	29.1µm	/
4	色差	ASTM D2244-16	$\triangle E*_{ab=0.2}$	/
5	耐洗涤剂	ASTM D2248-01a(2013)	无可见变化	/
6	耐家用化学品	ASTM D1308-02(2013)	详见结果	/
7	耐冲击性	ASTM D2794-93(2010)	冲击破坏点:	/
,		//01/M/DE/01/00(2010)	1.45kg•m	,
8	中性盐雾(NSS)试	ASTM B117-16	详见结果	/
	验			·
9	铅笔硬度	ASTM D3363-05(2011) <sup>ε2</sup>	擦伤硬度: 2H	/
10	漆膜附着力(拉开	ASTM D4541-09 <sup>ε1</sup> 方法 E	详见结果	/
	法)			·
11	耐刮擦	ISO 1518-1:2011	详见结果	/
12	涂膜耐水性(浸泡法)	ASTM D870-15	详见结果	/
		AAMA 2604-13 第 8.4.1.1		
13	沸水附着力	节,第 8.4.1.4 节,第	详见结果	/
		8.4.1.2 节,第 8.4.2 节		
14	耐泥浆	AAMA 2604-13 第 8.7.2 节	详见结果	/
15	负荷变形温度	参照 ASTM D648-16 和客	<b>111.0</b> ℃	1
10	贝彻文心血反	户要求	111. <b>U</b> C	1
16	密度	ASTM C271/C271M-16	1280 kg/m <sup>3</sup>	/



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序号	测试项目	测试方法 结果		结论	
17	弯曲测试	参照 ASTM D790-15 <sup>€2</sup> 程	弯曲强度	111 MPa	1
	ЭШWW	序A和客户要求	弯曲模量	10900 MPa	7
18	单位面积质量	参照 ASTM D5947-11 和	573	5 g/m <sup>2</sup>	/
10	十世世初次主	客户要求	070	5 g/m	1
19	剥离强度	ASTM D903-98(2010)	1.06	kgf/mm	/
20	弯曲剪切强度	ASTM C393/C393M-16	1.75	1.75 MPa	
21	剪切强度	ASTM D732-10	31.6 MPa		/
22	平面拉伸强度	ASTM C297/C297M-16	6.65 MPa		/
			拉伸强度	48.6 MPa	
23	拉伸测试	ASTM D638-14			/
			拉伸屈服	48.6 MPa	
			应力		
			平面剪切	6.65 MPa	
24	平面剪切测试	ASTM C273/C273M-16	强度       平面剪切		/
				33.3 MPa	
			模量		

合格:达到要求 备注:

不合格:未到达要求

/: 不下判定



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1. 测试项目: 耐磨性能

样品描述:见照片

测试方法: ASTM D4060-14

测试条件:

轮子型号: CS-10

负重: 500g/轮 (总重 1000g)

转数: 2000

测试结果:

测试项目	质量损失
耐磨性能	37mg

备注:测试前撕掉试样的保护膜。

测试照片:





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2. 测试项目:涂膜附着力

样品描述:见照片

测试方法: ASTM D3359-09<sup>62</sup> 方法 B

测试条件:

划格间距: 1mm

测试胶带: Elcometer 99

测试结果:

测试项目	附着力等级
涂膜附着力	5B

备注:

1. 依据 ASTM D3359-09<sup>ε2</sup> 方法 B, 附着力等级 5B 最好, 0B 最差。

2.测试前撕掉试样的保护膜。



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3. 测试项目:涂膜厚度

样品描述:见照片

测试方法: ASTM D7091-13

试验条件:

涡流法

### 测试结果:

测试项目	测试结果
涂膜厚度	29.1µm

备注:测试前撕掉试样的保护膜。

测试照片:
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4. 测试项目: 色差

样品描述:见照片

测试方法: ASTM D2244-16

测试条件:

积分球式分光光度计 d/8

光源: D65

观察者: 10°

测量模式:包含镜面反射

孔径: 25mm

测试结果:

测试项目	$ riangle E*_{ab}$
色差	0.2

备注:测试前撕掉试样的保护膜。

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5. 测试项目: 耐洗涤剂

样品描述:见照片

测试方法: ASTM D2248-01a(2013)

测试条件:

浸泡法

温度: 38℃

接触时间: 72h

测试结果:

测试项目	测试结果
耐洗涤剂	无可见变化

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备注:

1. 洗涤剂成分如下:

无水焦磷酸四钠(AR): 53%(m/m)
无水硫酸钠(AR): 19%(m/m)
十二烷基磺酸钠(AR): 20%(m/m)
水合硅酸钠(AR): 7%(m/m)
无水碳酸钠(AR,): 1%(m/m)
取上述洗涤剂配置成 1%(m/m)洗涤液
2. 测试前撕掉试样的保护膜。

测试照片:





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6. 测试项目: 耐家用化学品

样品描述:见照片

测试方法: ASTM D1308-02(2013)

测试条件:

点滴法,15min

测试结果:

测试项目	测试溶液	测试结果		
	10%(V/V)HCI	无变色、光泽变化、起泡、软化、膨胀、		
		附着力损失或其他可见变化		
耐家用化学品	10%(m/m)NaOH	无变色、光泽变化、起泡、软化、膨胀、		
	10 /0(11/11)14011	附着力损失或其他可见变化		
	美孚 <sup>®</sup> 速霸 1000 10W-40 发动机	无变色、光泽变化、起泡、软化、膨胀、		
	油	附着力损失或其他可见变化		

备注:测试前撕掉试样的保护膜。



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7. 测试项目: 耐冲击性

样品描述:见照片

测试方法: ASTM D2794-93(2010)

测试条件:

漆膜厚度: 29.1µm

样板厚度: 4.23mm

冲头直径: 15.9mm

冲击类型:正冲

#### 测试结果:

测试项目	测试结果
耐冲击性	冲击破坏点: 1.45kg•m

备注:测试前撕掉试样的保护膜。



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8. 测试项目:中性盐雾(NSS)试验

样品描述: 见照片

测试方法: ASTM B117-16

测试条件:

沉降盐液浓度: (5±1)% NaCl(m/m)

试验箱温度: (35±2)℃

盐雾沉降率: (1.0~2.0)ml/(80cm<sup>2</sup>·h)

沉降盐液 pH 值(23±3)℃: 6.5~7.2

暴露时间:24h

### 测试结果:

测试项目	外观等级(见备注 2)		综合等级
	#1	10	
中性盐雾(NSS)试验	#2	10	10
	#3	10	

备注:

1. 测试前撕掉试样的保护膜。



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### 2. 外观等级参照 EN ISO 10289:2001,按破坏面积评定:

破坏面积 A(%)	外观等级
0(无破坏)	10
0 <a≤0.1< td=""><td>9</td></a≤0.1<>	9
0.1 <a≤0.25< td=""><td>8</td></a≤0.25<>	8
0.25 <a≤0.5< td=""><td>7</td></a≤0.5<>	7
0.5 <a≤1.0< td=""><td>6</td></a≤1.0<>	6
1.0 <a≤2.5< td=""><td>5</td></a≤2.5<>	5
2.5 <a≤5.0< td=""><td>4</td></a≤5.0<>	4
5.0 <a≤10< td=""><td>3</td></a≤10<>	3
10 <a≤25< td=""><td>2</td></a≤25<>	2
25 <a≤50< td=""><td>1</td></a≤50<>	1
50 <a< td=""><td>0</td></a<>	0

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9. 测试项目:铅笔硬度

样品描述:见照片

测试方法:ASTM D3363-05(2011)<sup>€2</sup>

测试条件:

测试铅笔: Mitsubishi<sup>®</sup> Uni

测试结果:

测试项目	擦伤硬度
铅笔硬度	2H

备注:

1. 依据 ASTM D3363-05(2011)<sup>€2</sup>, 6H 最硬, 6B 最软。

6B - 5B - 4B - 3B - 2B - B - HB - F - H - 2H - 3H - 4H - 5H - 6H

2. 测试前撕掉试样的保护膜。



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10. 测试项目:漆膜附着力(拉开法)

样品描述:见照片

测试方法: ASTM D4541-09<sup>ɛ1</sup> 方法 E

测试条件:

拉拔应力速度: 0.2MPa/s

试柱直径: 20mm

胶黏剂: 3M Scotch-Weld<sup>™</sup> DP 460

胶黏剂固化时间:24h

测试结果:

测试项目	破坏强度	破坏类型 (见备注 1)
漆膜附着力(拉开法)	2MPa	100%C

备注:

1. 根据 ASTM D4541-09<sup>ɛ1</sup> Method E, 破坏类型如下:

A: 底材内聚破坏;

A/B: 第一道涂层与底材间的附着破坏;

B: 第一道涂层的内聚破坏;

C: 第二道涂层的内聚破坏;

B/C: 第一道涂层与第二道涂层间的附着破坏;

n: 复合涂层的第 n 道涂层的内聚破坏;

n/m: 复合涂层的第n道涂层与第m道涂层间的附着破坏;

—/Y: 最后一道涂层与胶黏剂间的附着破坏;

Y: 胶黏剂的内聚破坏;

Y/Z: 胶黏剂与试柱间的胶结破坏。

2. 测试前撕掉试样的保护膜。



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11. 测试项目: 耐刮擦

样品描述:见照片

测试方法: ISO 1518-1:2011

试验条件:

摩擦头: 半球形金属头半径(0.5±0.01)mm

行程: 40mm

摩擦速率: (35±5) mm/s

测试结果:

测试项目	测试结果
耐刮擦	20N 划透至底漆但未划透至金属基材

备注:测试前撕掉试样的保护膜。

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12. 测试项目:涂膜耐水性(浸泡法)

样品描述: 见照片

测试方法: ASTM D 870-15

测试条件:

水温: 38℃

测试周期: 24h

测试结果:

测试项目	外观
涂膜耐水性(浸泡法)	无颜色或光泽变化

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13. 测试项目: 沸水附着力

样品描述:见照片

测试方法: AAMA 2604-13 第 8.4.1.1 节, 第 8.4.1.4 节, 第 8.4.1.2 节, 第 8.4.2 节

测试条件:

划格间距:1mm

浸沸水: 20min

胶带: Elcometer 99

测试结果:

测试项目	测试结果
沸水附着力	无涂层脱落、起泡或附着力损失

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14. 测试项目: 耐泥浆

样品描述:见照片

测试方法: AAMA 2604-13 第 8.7.2 节

测试条件:

温度: 38℃

湿度: 100%RH

暴露时间: 24h

测试结果:

Γ	测试项目	测试结果
	耐泥浆	无附着力损失或其它可见变化

备注:

1. 砂浆成分如下:

石灰粉: 75g

标准砂: 225g

纯水: 100g

2. 测试前撕掉试样的保护膜。



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15. 测试项目: 负荷变形温度

样品描述:见照片

测试方法:参照 ASTM D648-16 和客户要求

测试条件:

试样: 127mm × 13.56mm × 4.32mm

传热介质: 硅油

升温速率: 120℃/h

负荷: 1.82MPa

跨距: 64mm

实验室环境条件: (23±2)℃, (50±5)%RH

测试结果:

测试项目	测试结果
负荷变形温度	111.0 °C

备注:测试前撕掉试样的保护膜。

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16. 测试项目: 密度

样品描述: 见照片

测试方法: ASTM C271/C271M-16

测试条件:

预处理条件: (23±2)℃, (50±5)%RH, 48 h

试样: 301 mm × 301 mm × 4.49 mm

实验室环境条件: (23±2)℃, (50±5)%RH 测试结果:

测试项目	测试结果
密度	1280 kg/m <sup>3</sup>

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测试照片:



17. 测试项目: 弯曲测试

样品描述:见照片

测试方法:参照 ASTM D790-15<sup>62</sup> 程序 A 和客户要求

测试条件:

试样: 127 mm×13.44 mm×4.35 mm

测试速度: 1.3 mm/min

跨距: 70 mm

实验室环境条件: 23±2℃, 50±5%RH

测试结果:

测试项目	测试结果
弯曲强度	111 MPa
弯曲模量	10900 MPa



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18. 测试项目:单位面积质量

样品描述:见照片

测试方法:参照 ASTM D5947-11 和客户要求

测试条件:

试样: 301 mm × 301 mm × 4.49 mm

实验室环境条件: 23±2℃, 50±5%RH

#### 测试结果:

测试项目	测试结果
单位面积质量	5735 g/m <sup>2</sup>

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19. 测试项目: 剥离强度

样品描述:见照片

测试方法: ASTM D903-98(2010)

测试条件:

试样宽度: 25 mm

分离速度: 152.4 mm/min

实验室环境条件: 23 ± 2 ℃, 50 ± 5 % RH

测试结果:

测试项目	测试结果
剥离强度	1.06 kgf/mm

备注:测试前撕掉试样的保护膜。

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20. 测试项目:弯曲剪切强度

样品描述:见照片

测试方法: ASTM C393/C393M-16

测试条件:

试样: 201 mm × 75.6 mm × 4.32 mm

芯层厚度: 3.33 mm

测试速度: 6 mm/min

跨距: 150mm

实验室环境条件: 23±2℃, 50±5%RH

测试结果:

测试项目	测试结果
弯曲剪切强度	1.75 MPa (见备注 1)



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### 备注:

- 1. 破坏类型: FAB
- 2. 带保护膜面朝向负载。
- 3. 测试前撕掉试样的保护膜。

### 测试照片:





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21. 测试项目: 剪切强度

样品描述: 见照片

测试方法: ASTM D732-10

测试条件:

试样厚度: 4.20 mm

冲头直径: 25 mm

测试速度: 1.3mm/min

### 实验室环境条件: 23±2℃, 50±5%RH

测试结果:

测试项目	测试结果
剪切强度	31.6 MPa

备注: 测试前撕掉试样的保护膜。

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22. 测试项目: 平面拉伸强度

样品描述: 见照片

测试方法: ASTM C297/C297M-16

测试条件:

试样: 51 mm × 51 mm

测试速度: 0.5 mm/min

实验室环境条件: (23 ± 2) ℃, (50 ± 5) % RH 测试结果:

测试结术:

测试项目	测试结果
平面拉伸强度	6.65 MPa (见备注 1)



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### 备注:

- 1. 破坏类型: 面板-芯子的胶粘层内聚破坏。
- 2. 测试前撕掉试样的保护膜。

#### 测试照片:





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23. 测试项目: 拉伸测试

样品描述: 见照片

测试方法: ASTM D638-14

测试条件:

试样: I型

试样厚度: 4.27 mm

测试速度: 5 mm/min

夹头间距: 115 mm

### 实验室环境条件: 23 ± 2 ℃, 50 ± 5 % RH

### 测试结果:

测试项目	测试结果
拉伸强度	48.6 MPa
拉伸屈服应力	48.6 MPa

备注:

1. 测试前撕掉试样的保护膜。

2.测试试样从样品中裁取。



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24. 测试项目: 平面剪切强度

样品描述: 见照片

测试方法: ASTM C273/C273M-16

测试条件:

试样: 60 mm × 50 mm × 4.20 mm

试样芯子厚度: 3.39 mm

测试速度: 0.5 mm/min

测试类型: 拉伸测试

### 实验室环境条件: 23 ± 2 ℃, 50 ± 5 % RH

#### 测试结果:

测试项目	测试结果
平面剪切强度	6.65 MPa
	(见备注 1)
平面剪切模量	33.3 MPa

备注:

1. 破坏类型: SGM。

2. 测试前撕掉试样的保护膜。

3.测试试样从样品中裁取。

4. 此测试报告是报告编号 GZIN161001906CCM 的中文译本,中英文版本如有歧义,概以英文版为准。



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