

编号 : NBIN1804004422PS\_CN

日期 : 2018-05-14

页码 : 1 of 26

客户名称: 保定市晟凯鑫塑料制品制造有限公司客户地址: 河北省保定市清苑区阳城镇高台村

样品名称 : 硬质 PVC 彩板

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 : 2018-04-23 测试开始时间 : 2018-04-23 测试结束时间 : 2018-05-14

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)

通标标准技术服务有限公司宁波分公司 授权签名

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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	比重	ASTM D792-13 方法 B 1.37		1.37	/
2	弯曲测试	ASTM D790-17 程序 A	弯曲强度	828 kgf/cm <sup>2</sup>	/
_	う画がは	类型 I	弯曲模量	2.98×10 <sup>4</sup> kgf/cm <sup>2</sup>	/
3	负荷变形温度	ASTM D648-16 方法 B	Į.	59.7℃	/
4	悬臂梁缺口冲	ASTM D256-10 <sup>€1</sup> 方法 A		69J/m	/
1	击强度	NOTWI DEGO TO MIZA	C(完全破坏)		,
5	邵氏硬度	ASTM D2240-15 <sup>£1</sup>	D/81/1		/
6	拉伸模量	ASTM D638-14	STM D638-14 29700kgf/cm <sup>2</sup>		/
7	拉伸测试	ASTM D638-14	拉伸强度	520kgf/cm <sup>2</sup>	/
,	1711 (1)	ASTIVI D030-14	断裂伸长率	140%	,
8	垂直燃烧	UL 94-2013 Rev.8-2017 第 8 节	V-0		/
9	维卡软化温度	ASTM D1525-17 <sup>£1</sup>	67.6℃		/
10	吸水率	ASTM D570-98(2010) ε1 0.03%		0.03%	/
11	尺寸稳定性	JIS K7133-1999	X方向	-0.09 %	/
	/人1小瓜/厂1丁	310 17 100 1000	Y方向	-0.15 %	,
12	表面电阻率	ASTM D257-14 1.54 x 10 <sup>15</sup> Ω/sq		x 10 <sup>15</sup> Ω/sq	/
13	体积电阻率	ASTM D257-14	2.00 x 10 <sup>15</sup> Ω·cm		/

备注: 合格: 达到要求

不合格: 未达到要求

/: 不下判定



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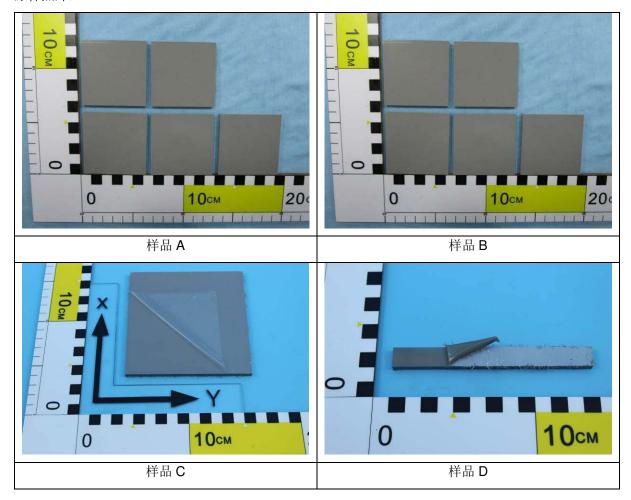


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### 原样照片:





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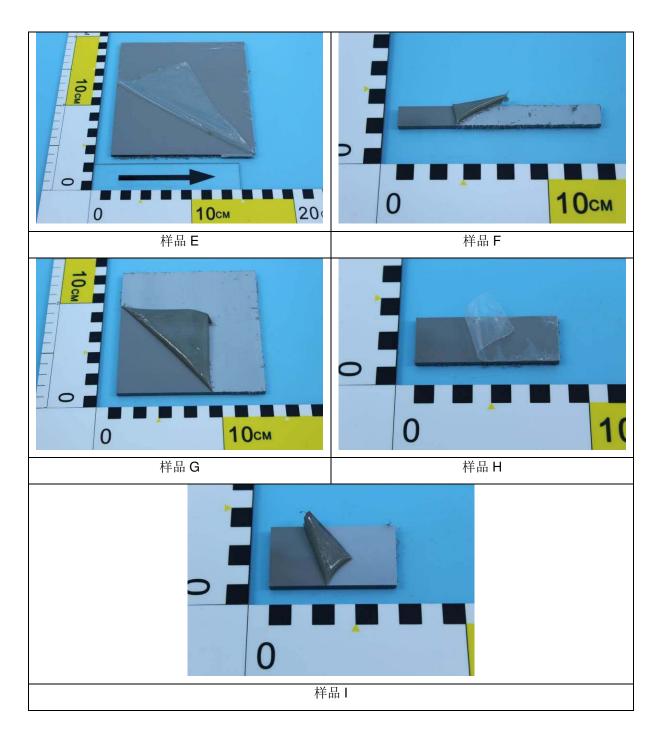
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实验室环境条件: (23±2)℃, (50±5)% RH

测试项目: 比重

测试方法: ASTM D792-13 方法 B

测试条件: 无水乙醇, 23 ± 2 ℃

测试结果:

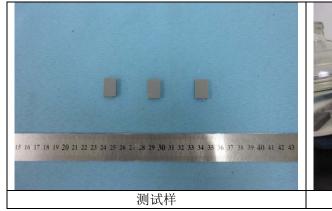
样品	结果
D	1.37

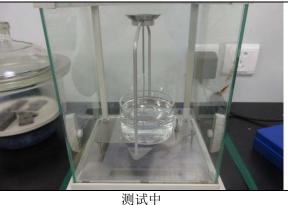
#### 注:

1. 测试样从样品中裁取。

2. 测试前撕掉试样的保护膜。

### 测试照片:





#### 设备信息:

设备	型号	设备编号	校准日期	下次校准日期
密度天平	BS224S	NBML-014	2017/09/12	2018/09/11



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2. 测试项目: 弯曲测试

测试方法: ASTM D790-17程序 A 类型 I

测试条件:

试样: 127.10 mm×20.12 mm×5.10 mm

测试速度: 2.2mm/min

跨距: 82mm

压头直径: 10mm

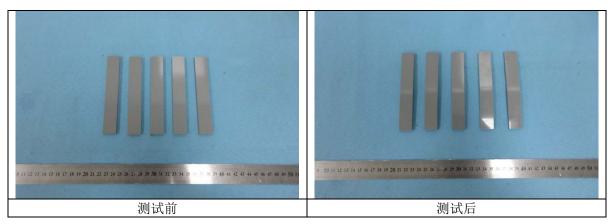
支座直径: 10mm

#### 测试结果:

样品	结果	
D	弯曲强度	828 kgf/cm <sup>2</sup>
	弯曲模量	2.98×10 <sup>4</sup> kgf/cm <sup>2</sup>

注:测试前撕掉试样的保护膜。

#### 测试照片:





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### 设备信息:

设备	型号	设备编号	校准日期	下次校准日期
万能材料试验机	3366	NBML-028	2017/09/12	2018/09/11



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3. 测试项目:负荷变形温度

测试方法: ASTM D648-16 方法 B

测试条件:

试样: 127mm × 5.20mm × 13.13mm

传热介质: 硅油

升温速率: 120℃/h

负荷: 1.82MPa

跨距: 100mm

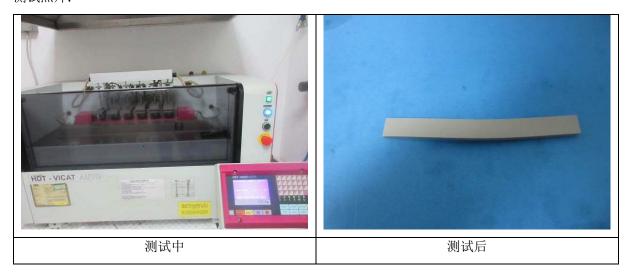
实验室环境条件: (23±2)℃, (50±5)%RH

测试结果:

样品	测试项目	测试结果
D	负荷变形温度	59.7℃

备注:测试前撕掉试样的保护膜。

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#### 设备信息:

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热变形维卡测定 仪	6970.000	GZMR-PL-E091	2018-04-17	2019-04-16

4. 测试项目: 悬臂梁缺口冲击强度

测试方法: ASTM D256-10<sup>£1</sup>方法 A

测试条件:

试样宽度: 5.09 mm (缺口制备: 机械加工)

摆锤能量: 2.75 J

冲击速度: 3.46 m/s

实验室环境条件: 23 ± 2 ℃, 50 ± 5 % RH

测试结果:

样品	测试项目	测试结果
G	悬臂梁缺口冲击强度	69J/m C(完全破坏)

### 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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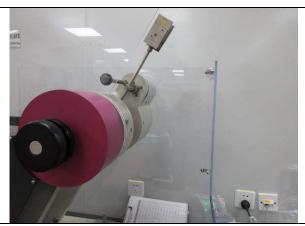


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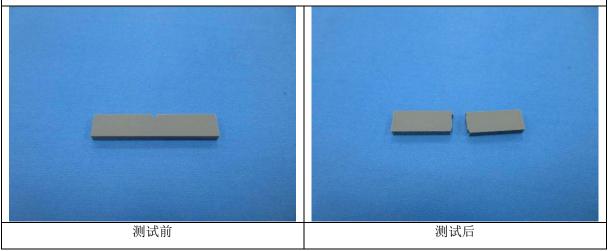
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#### 测试照片:



测试中



设备信息:

设备	型号	设备编号	校准日期	下次校准日期
冲击试验仪	6967	GZMR-PL-E008	2017-10-10	2018-10-09



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5. 测试项目: 邵氏硬度

测试方法: ASTM D2240-15<sup>£1</sup>

测试条件:

试样厚度: 5.06mm

实验室环境条件: 23 ± 2 ℃, 50 ± 5 % RH

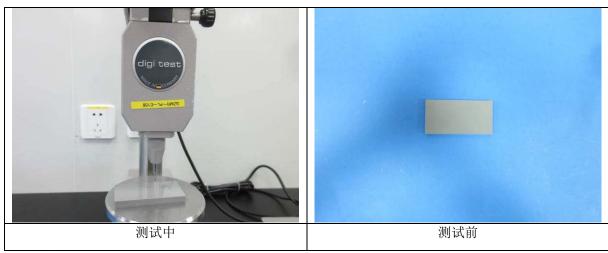
#### 测试结果:

样品	测试项目	测试结果
1	邵氏硬度	D/81/1

### 备注:

- 1. D/X/1 是指硬度计的类型是 D型; 读数时间是 1 s; 硬度值是 X。
- 2. 测试前撕掉试样的保护膜。

#### 测试照片:



#### 设备信息:

设备	型号	设备编号	校准日期	下次校准日期
多功能硬度计	Digitest II	GZMR-PL-E156	2017-06-05	2018-06-04



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6. 测试项目: 拉伸模量

测试方法: ASTM D638-14

测试条件:

试样: IV型

试样厚度: 5.16mm

测试速度: 5 mm/min

标距: 25 mm

夹头间距: 65 mm

实验室环境条件: 23 ± 2 ℃, 50 ± 5 % RH

测试结果:

样品	测试项目	测试结果
Е	拉伸模量	29700kgf/cm <sup>2</sup>

### 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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#### 测试照片:





测试中 测试前

### 设备信息:

设备	型号	设备编号	校准日期	下次校准日期
电子万能材料试 验机	Z030	GZMR-PL-E140	2017-10-10	2018-10-09



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7. 测试项目: 拉伸测试

测试方法: ASTM D638-14

测试条件:

试样: IV型

试样厚度: 5.16 mm

测试速度: 5mm/min

标距: 25 mm

夹头间距: 65 mm

实验室环境条件: 23 ± 2 ℃, 50 ± 5 % RH

测试结果:

样品	测试项目	测试结果
E	拉伸强度	520kgf/cm <sup>2</sup>
E	断裂伸长率	140%

### 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

### 测试照片:



测试中



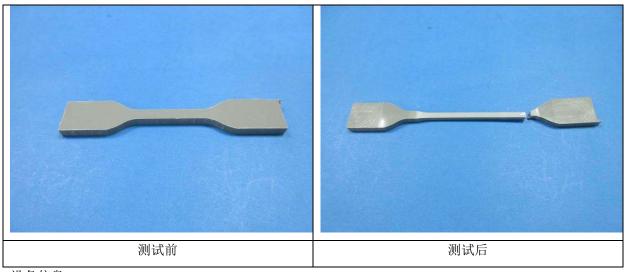
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#### 设备信息:

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电子万能材料试 验机	Z030	GZMR-PL-E140	2017-10-10	2018-10-09



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8. 测试项目:垂直燃烧

测试方法: UL 94-2013 Rev.8-2017 第8节

测试条件:

样品 F - 试样: 126mm×12.9mm×5.1mm

测试结果:

处理条件	常态: (23±2)℃, (50±5)%RH,48h		老化: (70±2)℃,168h- 干燥器,(23±2)℃,4h							
试样	1	2	3	4	5	1	2	3	4	5
第一次施加火焰后余焰时间 (s), t <sub>1</sub>	0	0	0	0	0	0	0	0	0	0
第二次施加火焰后余焰时间 (s), t <sub>2</sub>	0	0	0	0	0	0	0	0	0	0
第二次施加火焰后余辉时间 (s), t <sub>3</sub>	0	0	0	0	0	0	0	0	0	0
任何状态调节,总余焰时间 (s), t <sub>1</sub> +t <sub>2</sub>			0					0		
第二次施加火焰后余焰时间加余辉时间 (s), t <sub>2</sub> +t <sub>3</sub>	0	0	0	0	0	0	0	0	0	0
试样余焰或余辉是否蔓延到夹具	否	否	否	否	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	否	否	否	否

等级: V-0 (见表 1)



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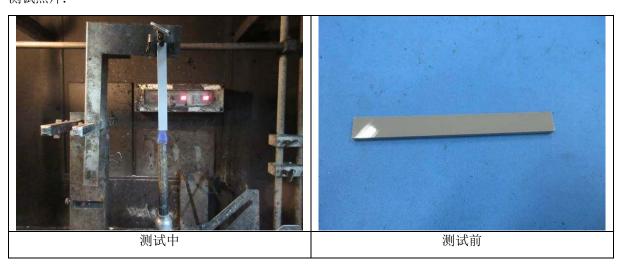
#### 表 1

判定条件	V-0	V-1	V-2
单个试样余焰时间,t <sub>1</sub> 或t <sub>2</sub>	≤10s	≤30s	≤30s
任何状态调节,总余焰时间(5个试样的 t <sub>1</sub> +t <sub>2</sub> )	≤50s	≤250s	≤250s
第二次施加火焰后单个试样余焰时间加余辉时间 (t <sub>2</sub> +t <sub>3</sub> )	≤30s	≤60s	≤60s
任一试样余焰或余辉是否蔓延到夹具	否	否	否
燃烧颗粒或滴落物是否引燃脱脂棉	否	否	是

### 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。

### 测试照片:



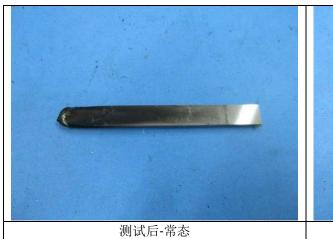


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设备信息:

设备型号设备编号校准日期下次校准日期水平垂直燃烧仪HVUL2GZMR-PL-E0322017-07-102018-07-09热空气老化试验箱LR05AGZMR-AG-E0732017-10-162018-10-15

9. 测试项目:维卡软化温度

测试方法: ASTM D1525- 17<sup>ε1</sup>

测试条件:

试样厚度: 5.14mm 液体传热介质: 硅油 升温速率: 50℃/h

负荷: 50N

实验室环境条件: (23±2)℃, (50±5)%RH

测试结果:

样品	测试项目	测试结果
Е	维卡软化温度	67.6℃



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16.57 Welkin Qullingu Industy Park No. 1171 Liggra Read, Ningbo Rational Ningbo National Ning



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#### 备注:

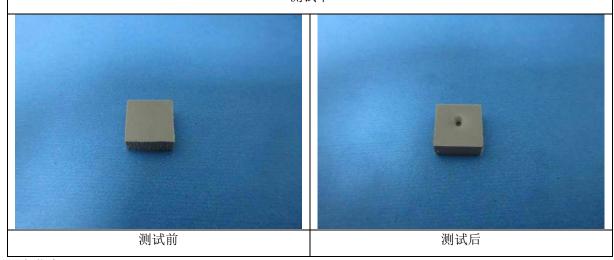
1. 测试前撕掉试样的保护膜。

2. 测试试样从样品中裁取。

#### 测试照片:



测试中



### 设备信息:

设备	型号	设备编号	校准日期	下次校准日期
热变形维卡测定 仪	P/N 6911.000	GZMR-PL-E009	2017-08-29	2018-08-28



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10. 测试项目: 吸水率

测试方法: ASTM D570-98(2010)<sup>ε1</sup>

测试条件:

试样: 76.3mm×25.6mm×5.3mm

干燥条件: 50±3℃, 24h

浸泡条件: 23±1℃, 24h

实验室环境条件: 23±2℃, 50±5%RH

### 测试结果:

样品	测试项目	测试结果
Н	吸水率	0.03% (见备注 1)

### 备注:

- 1. 测试前撕掉试样的保护膜。
- 2. 吸水率,%=(浸泡后的质量-浸泡前干燥后的质量)/浸泡前干燥后的质量×100



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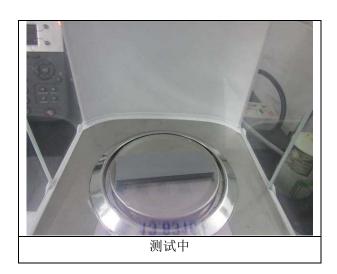


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### 测试照片:



#### 设备信息:

设备	型号	设备编号	校准日期	下次校准日期
电子天平	XPE404S	GZMR-PL-E004- 07	2018-02-05	2019-02-04
电热鼓风烘箱	UF 160	GZMR-AG-E149	2017-06-12	2018-06-11



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11. 测试项目: 尺寸稳定性

测试方法: JIS K7133-1999

测试条件:

试样: 120mm × 120mm

条件: 70 ℃, 5min

实验室环境条件: 23 ± 2 ℃, 50 ± 5 % RH

### 测试结果:

样品	测试项目		测试结果
С	尺寸稳定性	X方向	-0.09 %
	/ ( 1 have 12	Y方向	-0.15 %

#### 备注:

- 1. 尺寸稳定性,% = (测试后的尺寸-测试前的尺寸)/测试前的尺寸×100
- 2. 测试前撕掉试样的保护膜。

### 测试照片:





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#### 设备信息:

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自然换气烘箱	UN260plus	GZMR-PL-E245	2018-03-05	2019-03-04
数显卡尺	0~300mm/0.01mm	GZMR-PL-E041-	2017-11-23	2018-11-22
9X 112 11/ C	0 000111111/0.01111111	10	2017 11 20	2010 11 22

12. 测试项目:表面电阻率

测试方法: ASTM D257-14

测试条件:

预处理条件: 23 ± 2 ℃, 50 ± 5 %RH, 48 h

测试条件: 23 ± 2 ℃, 50 ± 5 %RH

测试电极直径: 26 mm

电极间隙: 6.0 mm

测试电压: 500 Vdc

电化时间: 1 min

### 测试结果:

试样	测试结果		
W(1T	表面电阻 R <sub>s</sub> (Ω)	表面电阻率 $ ho_s$ ( $\Omega$ /sq)	
A-#1	1.26 x 10 <sup>14</sup>	2.11 x 10 <sup>15</sup>	
A-#2	9.49 x 10 <sup>13</sup>	1.59 x 10 <sup>15</sup>	
A-#3	1.21 x 10 <sup>14</sup>	2.03 x 10 <sup>15</sup>	
A-#4	6.55 x 10 <sup>13</sup>	1.10 x 10 <sup>15</sup>	
A-#5	5.29 x 10 <sup>13</sup>	8.86 x 10 <sup>14</sup>	
平均值	9.21 x 10 <sup>13</sup>	1.54 x 10 <sup>15</sup>	

### 备注:

- 1. 测试试样从样品中裁取。
- 2. 测试前撕掉试样的保护膜。



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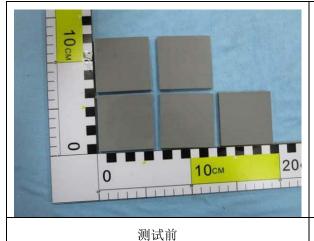


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#### 测试照片:





测试中

#### 设备信息:

设备	型号	设备编号	校准日期	下次校准日期
高阻计	4339B	GZMR-PL-E150	2017-07-19	2018-07-18



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13. 测试项目: 体积电阻率 测试方法: ASTM D257-14

测试条件:

预处理条件: 23 ± 2 ℃, 50 ± 5 %RH, 48 h

测试条件: 23 ± 2 °C, 50 ± 5 %RH

测试电极直径: 26 mm

电极间隙: 6.0 mm 测试电压: 500 Vdc 电化时间: 1 min

### 测试结果:

试样	试样厚度 (mm)	测试结果		
₩VIT	WATATIX (IIIII)	体积电阻 R <sub>ν</sub> (Ω)	体积电阻率 ρ <sub>ν</sub> (Ω·cm)	
B-#1	5.14	1.67 x 10 <sup>14</sup>	2.61 x 10 <sup>15</sup>	
B-#2	5.12	1.11 x 10 <sup>14</sup>	1.74 x 10 <sup>15</sup>	
B-#3	5.14	6.35 x 10 <sup>13</sup>	9.93 x 10 <sup>14</sup>	
B-#4	5.06	1.40 x 10 <sup>14</sup>	2.22 x 10 <sup>15</sup>	
B-#5	5.12	1.56 x 10 <sup>14</sup>	2.45 x 10 <sup>15</sup>	
平均值	5.12	1.28 x 10 <sup>14</sup>	2.00 x 10 <sup>15</sup>	

### 备注:

1. 测试试样从样品中裁取;

2. 测试前撕掉试样的保护膜。



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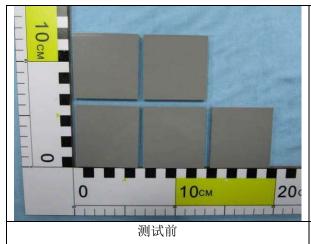


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: 2018-05-14 日期

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#### 测试照片:





测试中

### 设备信息:

设备	型号	设备编号	校准日期	下次校准日期
高阻计	4339B	GZMR-PL-E150	2017-07-19	2018-07-18
桌上型厚度计	TG-3130-A3	GZMR-RL-E115	2017-08-07	2018-08-06

- 以上测试由 SGS 集团内部实验室执行。
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