

编号 : GZIN2008040602MR-02 CN

日期 : 2021-06-11

页码 : 1 of 22

客户名称: 深圳华捷新材料有限公司

客户地址: 深圳市坪山区坪山街道和平社区兰金四路 19 号华瀚科技工业园厂房 2 栋 107

样品名称 : HJ-AS801 柔性有机硅重防腐新材料

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。

SGS 参考号 : CP20-040138

收样日期 : 2020-08-04 测试开始时间 : 2020-08-04 测试结束时间 : 2021-01-29

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广州分公司检测中心

了以

授权签名

彭卫玲

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	涂膜弯曲测试(圆柱 轴)	GB/T 6742-2007	无可见开裂和剥 落	/
2	漆膜厚度	GB/T 4956-2003	448µm	/
3	干燥时间	GB/T 1728-1979(1989)表干 时间甲法,实干时间甲法	表干时间: 30min 实干时间: 2h	/
4	耐冲击性	GB/T 1732-1993	无可见开裂和剥 落	/
5	光老化试验-氙灯辐 射暴露	GB/T 1865-2009 循环 A & GB/T 5210-2006 第 9.4.2 节	详见结果	/
6	固体含量	GB/T 16777-2008 第 5 节	70%	1
7	漆膜附着力(拉开 法)	GB/T 5210-2006 第 9.4.2 节	详见结果	/
8	耐化学试剂	GB/T 9274-1988 甲法 & GB/T 5210-2006 第 9.4.2 节	详见结果	/

备注: 合格: 达到要求

不合格: 未达到要求

/: 不下判定



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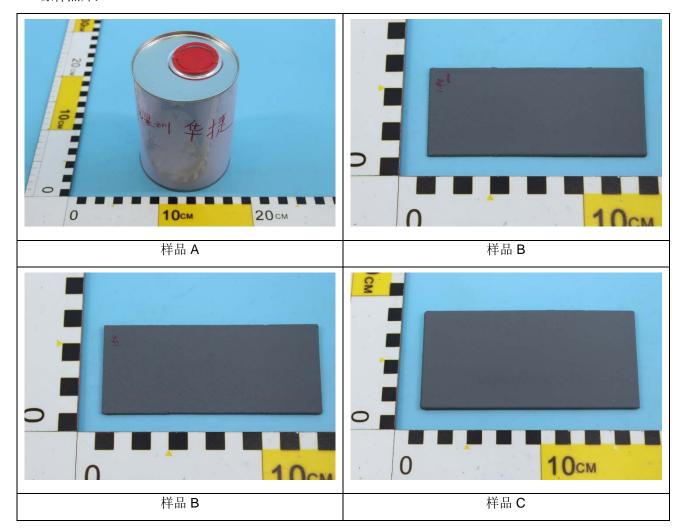


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原样照片:





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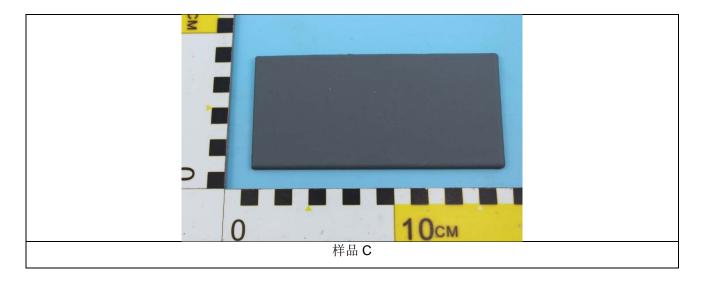
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1.测试项目:涂膜弯曲测试(圆柱轴)

样品描述: 带涂层的金属板

测试方法: GB/T 6742-2007

测试条件:

漆膜厚度: 194.4µm

样板厚度: 1.63mm

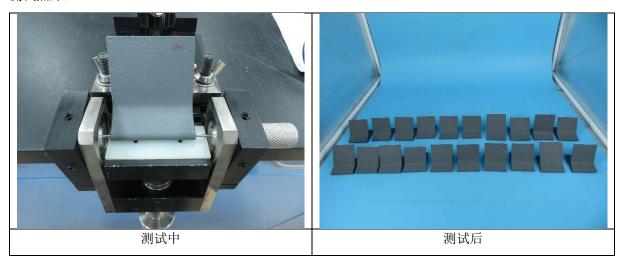
轴棒直径: 2mm

测试结果:

样品	测试结果
В	无可见开裂和剥落

备注:用 10X 放大镜检查。

测试照片:





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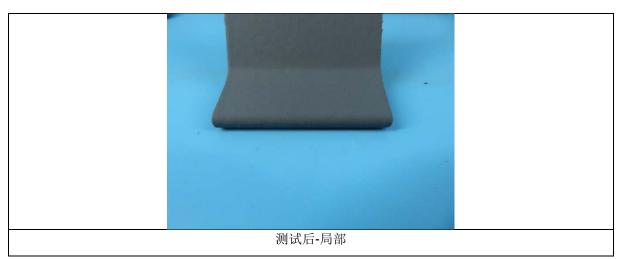
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设备信息:

设备	型号	设备编号	校准日期	下次校准日期
数字涂膜厚度计	Fnbasic	GZMR-AG-E170	2019-10-23	2020-10-22
数字涂膜厚度计	Fnbasic	GZMR-AG-E170	2020-10-15	2021-10-14
数显卡尺	CD-20AX	GZMR-AG-E128-02	2020-07-06	2021-07-05
圆柱弯曲仪	809	GZMR-AG-E104	2020-07-28	2021-07-27

2.测试项目:漆膜厚度

样品描述: 带涂层的金属板

测试方法: GB/T 4956-2003

测试条件: 电磁感应法

测试结果:

样品	漆膜厚度
С	448µm



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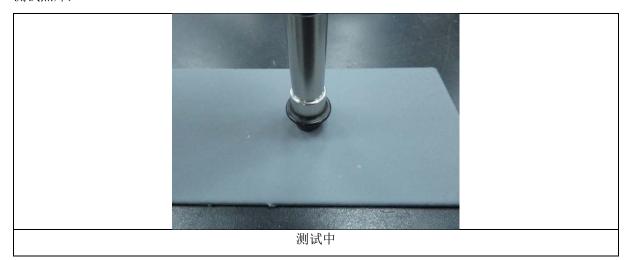
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测试照片:



设备信息:

设备	型号	设备编号	校准日期	下次校准日期
数字涂膜厚度计	Fnbasic	GZMR-AG-E170	2019-10-23	2020-10-22
数字涂膜厚度计	Fnbasic	GZMR-AG-E170	2020-10-15	2021-10-14

3.测试项目:干燥时间

样品描述:液体

测试方法: GB/T 1728-1979(1989)表干时间甲法,实干时间甲法

测试条件:

基材: 马口铁

涂膜器: 100µm

测试结果:

样品	测试结果
Δ	表干时间: 30min
A	实干时间: 2h



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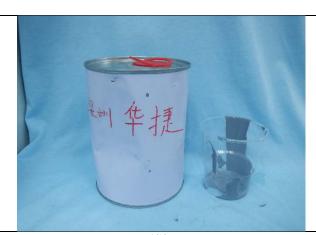


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测试照片:



原样 A



测试中-表干



测试中-实干

设备信息:

设备	型号	设备编号	校准日期	下次校准日期
干燥试验器	BGD 263	GZMR-AG-E161	2020-07-27	2021-07-26
秒表	DM1-001	GZMR-AG-E160-	2020-06-05	2021-06-04
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4.测试项目: 耐冲击性

样品描述: 带涂层的金属板

测试方法: GB/T 1732-1993

试验条件:

漆膜厚度: 181.6µm

样板厚度: 1.70mm

冲头直径: 8mm

凹槽直径: (15±0.3) mm

重锤质量: (1000±1)g

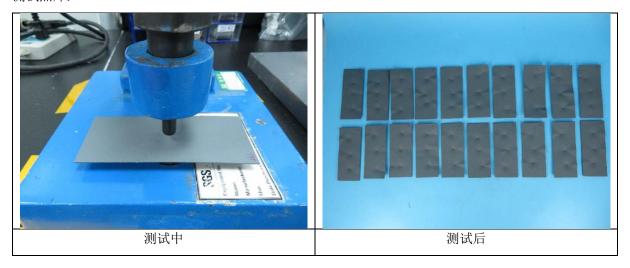
冲击高度: 50cm

测试结果:

样品	测试结果
В	无可见开裂和剥落

备注:用4倍放大镜检查。

测试照片:





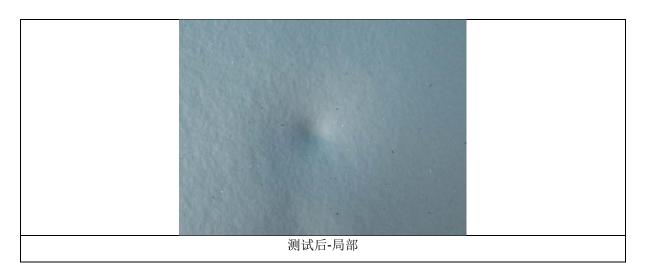
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设备信息:

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数字涂膜厚度计	Fnbasic	GZMR-AG-E170	2020-10-15	2021-10-14
数显卡尺	CD-20AX	GZMR-AG-E128-02	2020-07-06	2021-07-05
漆膜冲击仪	CJQ-II	GZMR-AG-E006	2019-11-11	2020-11-10
漆膜冲击仪	CJQ-II	GZMR-AG-E006	2020-10-19	2021-10-18



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5.测试项目: 光老化试验-氙灯辐射暴露

样品描述: 带涂层的金属板

测试方法: GB/T 1865-2009 循环 A & GB/T 5210-2006 第 9.4.2 节

测试条件:

试验循环:

GB/T 1865-2009 循环 A

辐照度: 0.51W/(m²·nm)@340nm

光照: 102min, 黑板温度: (63±2)℃, 相对湿度: (50±10)%RH

光照和喷淋: 18min

滤镜: Boro/Boro

暴露时间: 3000 小时

光老化后漆膜附着力(拉开法):

拉拔应力速度: 1MPa/s

试柱直径: 20mm

胶黏剂: 3M® Scotch-Weld™ MC1500

胶黏剂固化时间: 24h

测试日期: 2020-08-04~2021-01-29

测试结果:

样品		破坏强度	破坏类型 (见备注)
	#1	2.26Mpa	100%B
С	#2	2.27Mpa	50%B, 50%-/Y
	#3	1.69Mpa	80%B, 20%Y/Z

备注:

1. 根据 GB/T 5210-2006, 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;

B/C: 第一道涂层与第二道涂层间的附着破坏;



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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;

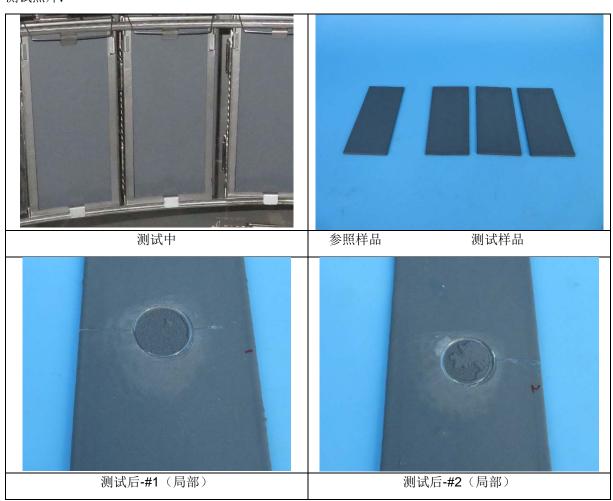
一/Y: 最后一道涂层与胶黏剂间的附着破坏;

Y: 胶黏剂的内聚破坏;

Y/Z: 胶黏剂与试柱间的胶结破坏。

2.因涂层无法分离,测试结果仅供参考。

测试照片:





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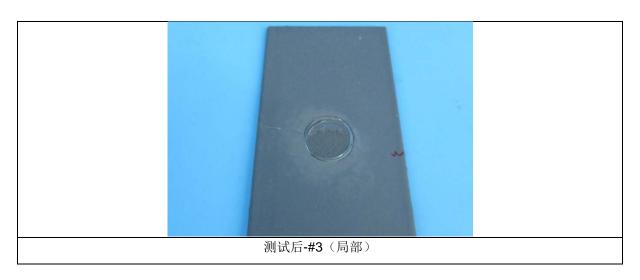
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日期 : 2021-06-11 页码 : 13 of 22



设备信息:

设备	型号	设备编号	校准日期	下次校准日期
氙弧灯日晒老化机	Ci5000	GZMR-AG-E248	2020-04-22	2021-04-21
拉拔式附着力仪	AT-A	GZMR-AG-E134	2019-10-09	2020-10-08
拉拔式附着力仪	AT-A	GZMR-AG-E134	2020-09-15	2021-09-14

6.测试项目:固体含量

样品描述:液体

测试方法: GB/T 16777-2008 第 5 节

测试条件:

试样量: (6±1) g

加热温度: (120±2) ℃

加热时间: 3h

测试结果:

Ī	样品	测试结果
	А	70%



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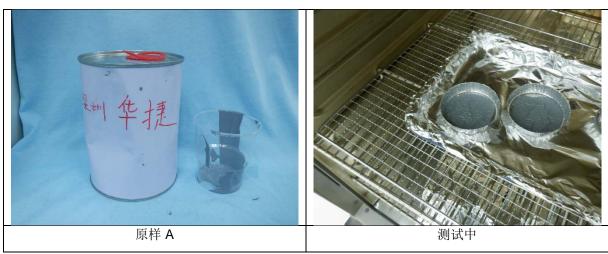
备注: 固体含量, %=((m₂-m₀)/(m₁-m₀))×100

m₀-空皿的质量, g

m₁-皿和试样的质量, g

m₂-皿和剩余物的质量, g

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	ML204T/02	GZMR-AG-E176	2020-04-27	2021-04-26
电热鼓风烘箱	UF260plus	GZMR-PL-E138	2020-04-10	2021-04-09

7.测试项目:漆膜附着力(拉开法)

样品描述: 带涂层的金属板

测试方法: GB/T 5210-2006 第 9.4.2 节

测试条件:

拉拔应力速度: 1MPa/s

试柱直径: 20mm

胶黏剂: 3M® Scotch-Weld™ MC1500

胶黏剂固化时间: 24h



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测试结果:

样品		破坏强度	破坏类型 (见备注)	
	#1	1.51MPa	30%B,70%Y	
	#2	2.06MPa	100%B	
	#3	2.13MPa	100%B	
	#4	1.47MPa	50%B,50%Y	
С	#5	2.02MPa	100%B	
	#6	2.07MPa	100%B	
	#7	2.02MPa	70%B,30%Y	
	#8	1.99MPa	100%B	
	#9	2.10MPa	100%B	
	#10	1.84MPa	80%B,20%Y	

备注:

1. 根据 GB/T 5210-2006, 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;

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;

一/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.因涂层无法分离,测试结果仅供参考。



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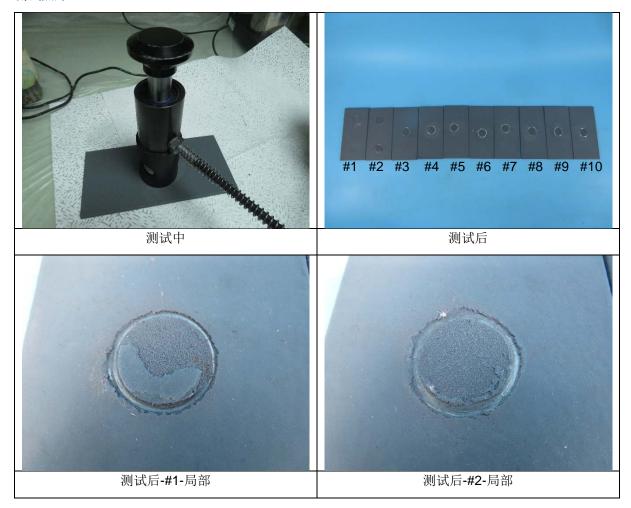


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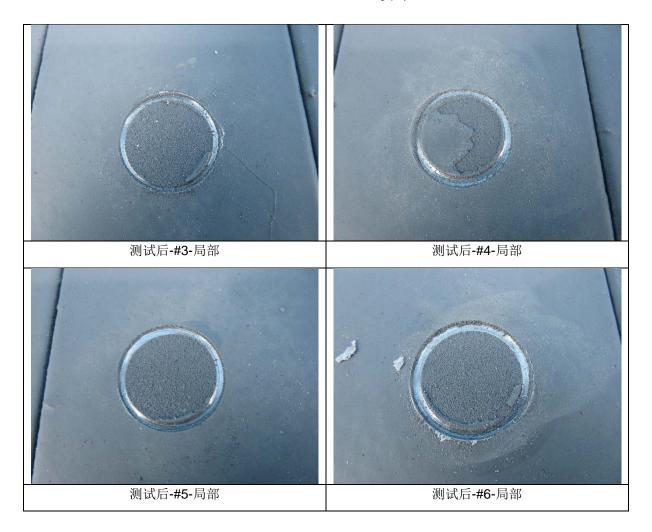
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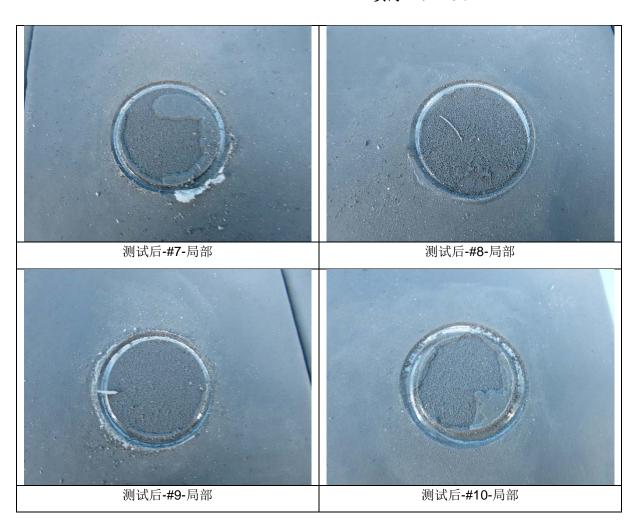
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拉拔式附着力仪	AT-A	GZMR-AG-E134	2019-10-09	2020-10-08
拉拔式附着力仪	AT-A	GZMR-AG-E134	2020-09-15	2021-09-14



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8. 测试项目: 耐化学试剂

样品描述: 带涂层的金属板

测试方法: GB/T 9274-1988 甲法 & GB/T 5210-2006 第 9.4.2 节

测试条件: 浸泡法, 168h

浸泡后漆膜附着力(拉开法):

拉拔应力速度: 1MPa/s

试柱直径: 20mm

胶黏剂: 3M® Scotch-Weld™ MC1500

胶黏剂固化时间: 24h

测试结果:

样品	试剂	测试温度	测试后附着力		
			破坏强度	破坏类型 (见备注)	
	1. 3% NaCl	60℃	1.51MPa	40%B,60%Y	
С	2. 5% NaOH	常温	1.57MPa	70%B,30%Y	
	3. 5% H ₂ SO ₄	常温	1.82MPa	30%B,70%Y	

备注:

1. 根据 GB/T 5210-2006, 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;

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;

一/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. 因涂层无法分离,测试结果仅供参考。



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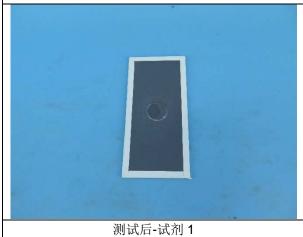
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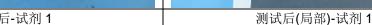
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测试中







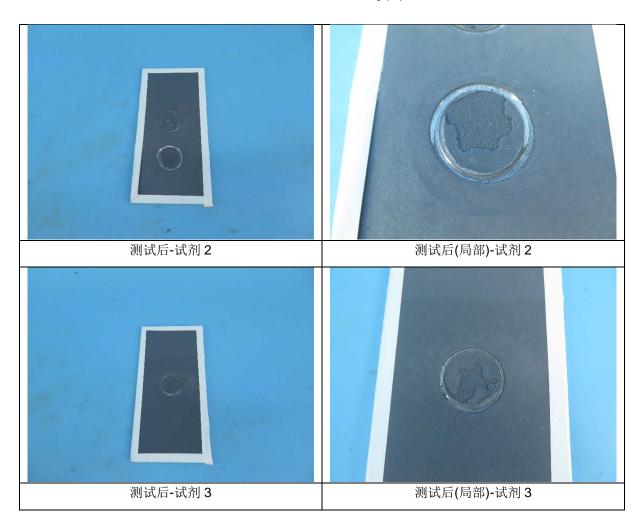
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设备	型号	设备编号	校准日期	下次校准日期
电子天平	JJ2000B	GZMR-AG-E213	2020-04-27	2021-04-26
电热鼓风烘箱	UFE600A0E3	GZMR-PL-E100	2020-04-10	2021-04-09
拉拔式附着力仪	AT-A	GZMR-AG-E134	2019-10-09	2020-10-08
拉拔式附着力仪	AT-A	GZMR-AG-E134	2020-09-15	2021-09-14

附录信息:

- 1. 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。
- 2. 此测试报告是报告编号 GZIN2008040602MR-02 的中文译本,中英文版本如有歧义,概以英文版为准。
- 3. 此测试报告用于取代编号 GZIN2008040602MR_CN 和 GZIN2008040602MR-01_CN 测试报告,原报告作废。
- 4.本报告更新了样品名称。
- 5. 本报告更新了地址。

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