



中国认可
国际互认
检测
TESTING
CNAS L2021



CEMT/QR-7.8-01-03-2020(1)

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№: 202303186

检测报告

TEST REPORT

产品名称

347F环氧玻璃布层压板
347F Epoxy Glass Cloth Laminated Sheet

Name of sample:

委托单位

九江鑫星绝缘材料有限公司
JIUJIANG XINXING INSULATION MATERIAL
CO.,LTD

Client:

检测类别

日常委托
Commission test

Classification of test:

桂林赛盟检测技术有限公司
机械工业电工材料产品质量监督检测中心
Guilin CEMT Technology Co., Ltd.
Electrical Materials Quality Supervision and
Testing Center of Machinery Industry of China

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桂林赛盟检测技术有限公司

机械工业电工材料产品质量监督检测中心

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E-mail: postmaster@cemt.org.cn

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Declaration

1. This test report (including copy) is invalid if it is without the "Test Stamp".
2. The partial copy of this test report is invalid.
3. This test report is invalid without all the signatures of the chief surveyor, auditor and approver.
4. This test report is invalid if it is with any altering and rasure.
5. The test results shown this test report relate only to the received samples provided by the client.
6. In China, if this test report without CMA identification, it indicates that the data and results are only for the internal reference, no any social proof effect.

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TEST REPORT

产品名称 Name of sample	347F环氧玻璃布层压板 347F Epoxy Glass Cloth Laminated Sheet		
型号 Type	—	规格 Specifications	—
批号和/或生产日期 Lot and/or Manufacture No.	—	商标 Trademark	—
委托单位 Client	九江鑫星绝缘材料有限公司 地址: 江西省九江市濂溪区濂溪大道2号 JIUJIANG XINXING INSULATION MATERIAL CO.,LTD Add:No.2 Lianxi Road,Lianxi District,Jiujiang City,Jiangxi Province,China 332005 联系人/Contact: 骆训华/Xunhua Luo 电话/Tel: (0086)18970279478 邮箱/E-mail: 8160890@qq.com		
生产单位 Manufacturer	—		
以上信息及样品由委托方提供及确认, CEMT不承担证实委托方提供信息的准确性、适当性和(或)完整性的责任。 The above information and samples are provided and confirmed by the client. CEMT shall not be responsible for verifying the accuracy, appropriateness and/or completeness of the information provided by the client.			
接收样品状态 Received sample status	按标准要求制备的试样/Standard sample		
接样日期 Received sample date	2023-05-29	完成日期 Test completion date	2023-06-15
检测方法 Test method	GB/T 1303.2-2009等/etc.		
检测结论/Test conclusions: 来样经检测, 仅给出实测值。 A sample of the product was tested, and the test results are only given the measured values.			
主检: Chief surveyor:	刘发远	审核: Auditor:	周西力
		签发日期: Issue Date:	2023-06-16
		批准: Approved by:	于检专用章

检测报告

TEST REPORT

产品名称/Name of sample : 347F环氧玻璃布层压板/347F Epoxy Glass Cloth Laminated Sheet

序号 Item	检测性能/项目 Property	单位 Unit	要求 Requirement	检测结果 Test result	检测方法 Test method
1	垂直层向弯曲强度（常态，纵向） Flexural strength perpendicular to laminations(Normality,MD)	MPa	—	510	GB/T 1303.2-2009
2	垂直层向弯曲强度（155℃±2℃，纵向） Flexural strength perpendicular to laminations(155℃±2℃,MD)	MPa	—	261	
3	平行层向简支梁冲击强度（缺口，纵向） Charpy impact strength parallel to laminations (Notched,MD)	kJ/m ²	—	113	
4	拉伸强度（纵向） Tensile strength(MD)	MPa	—	445	
5	垂直层向电气强度（90℃±2℃，25#变压器油中，20s逐级升压，Φ25mm/Φ75mm圆柱电极） Electric strength perpendicular to laminations (at 90℃±2℃ in 25# transformer oil,20s step-by-step test,Φ25mm/Φ75mm cylindrical electrode)	kV/mm	—	21.2	
6	平行层向击穿电压（90℃±2℃，25#变压器油中，20s逐级升压，Φ130mm/Φ130mm平板电极） Breakdown voltage parallel to laminations(at 90℃±2℃ in 25# transformer oil,20s step-by-step test,Φ130mm/Φ130mm plate electrode)	kV	—	75.0	
7	相对电容率（1MHz） Relative Permittivity(1MHz)	—	—	4.60	
8	绝缘电阻（锥销电极，电极间距25mm） Insulation resistance(Taper pin electrodes,and the electrode spacing is 25.0 mm)	Ω	—	4.1×10 ¹³	

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TEST REPORT

产品名称/Name of sample : 347F环氧玻璃布层压板/347F Epoxy Glass Cloth Laminated Sheet

序号 Item	检测性能/项目 Property	单位 Unit	要求 Requirement	检测结果 Test result	检测方法 Test method
9	绝缘电阻 (浸水24h后, 锥销电极, 电极间距25mm) Insulation resistance(After 24h immersion in water, using taper pin electrodes, and the electrode spacing is 25.0 mm)	Ω	—	1.7×10^{13}	GB/T 1303.2-2009
10	相比电痕化指数 (CTI175) Comparative tracking index(CTI175)	—	—	CTI175	
11	密度 Density	g/cm^3	—	1.83	
12	燃烧性 (垂直法) Flammability(Vertical method)	级 Class	—	V-0	
13	粘合强度 Adhesion strength	N	—	7377	GB/T 1303.6-2009中规定的试验方法 The methods specified in GB/T 1303.6-2009
14	玻璃化转变温度 (DSC法) Glass transition temperature(DSC method)	$^{\circ}\text{C}$	—	167	GB/T 22567-2008

备注/Remark:

- 第5项“垂直层向电气强度”试验试样的厚度为 (1.03~1.05) mm;
The thickness of the specimens for Item 5“Electric strength perpendicular to laminations” test are (1.03~1.05)mm.
- 第6项“平行层向击穿电压”试验试样的尺寸为 (100.08~100.14) mm (长) × (25.04~25.06) mm (宽) × (10.51~10.53) mm (厚), 电极间距为 (25.04~25.06) mm;
The sizes of the specimens for Item 6 “Breakdown voltage parallel to laminations” test are (100.08~100.14)mm (length)×(25.04~25.06)mm (width)×(10.51~10.53)mm (thickness). And the electrode spacing is (25.04~25.06)mm.
- 第12项“燃烧性 (垂直法)”试验试样尺寸为 (12.76~12.85) mm (宽) × (1.27~1.33) mm (厚);
The sizes of the specimens for Item 12“Flammability(Vertical method)” test are (12.76~12.85)mm(width)×(1.27~1.33)mm(thickness).
- 第13项“粘合强度”试验试样的尺寸为 (25.00~25.09) mm × (25.11~25.21) mm × (10.43~10.50) mm;
The sizes of the specimens for Item 13“Adhesion strength” test are (25.00~25.09) mm × (25.11~25.21) mm × (10.43~10.50) mm.

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序号 Item	检测性能/项目 Property	单位 Unit	要求 Requirement	检测结果 Test result	检测方法 Test method
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5、试验过程照片及曲线见图1~图11。

The pictures of the tests and curves are shown in Fig.1~Fig.11.

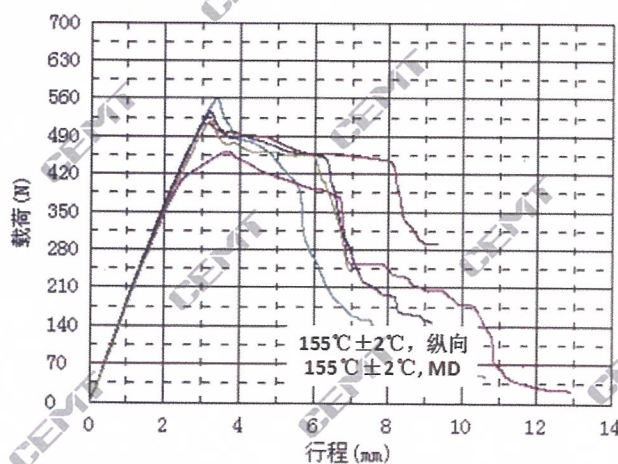
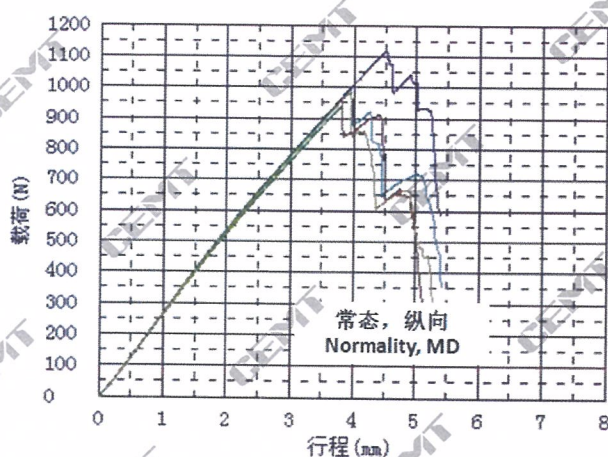


图1 垂直层向弯曲强度试验
Fig.1 Flexural strength perpendicular to laminations test

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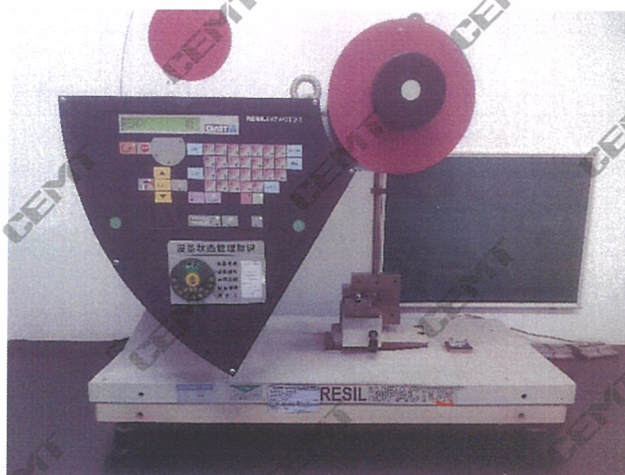


图2 平行层向简支梁冲击强度（缺口，纵向）试验
Fig.2 Charpy impact strength parallel to laminations (Notched,MD) test

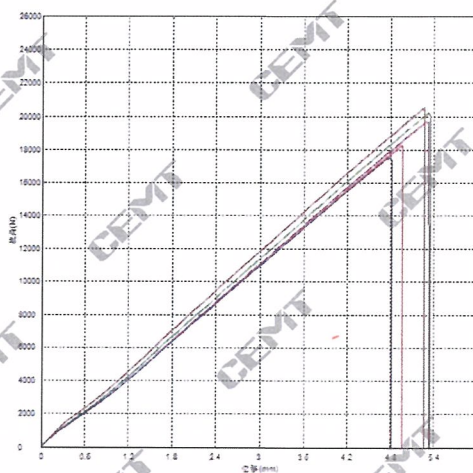


图3 拉伸强度试验
Fig.3 Tensile strength test

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图4 垂直层向电气强度试验
Fig.4 Electric strength perpendicular to laminations test



图5 平行层向击穿电压试验
Fig.5 Breakdown voltage parallel to laminations test

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图6 相对电容率(1MHz)试验
Fig.6 Relative Permittivity(1MHz) test

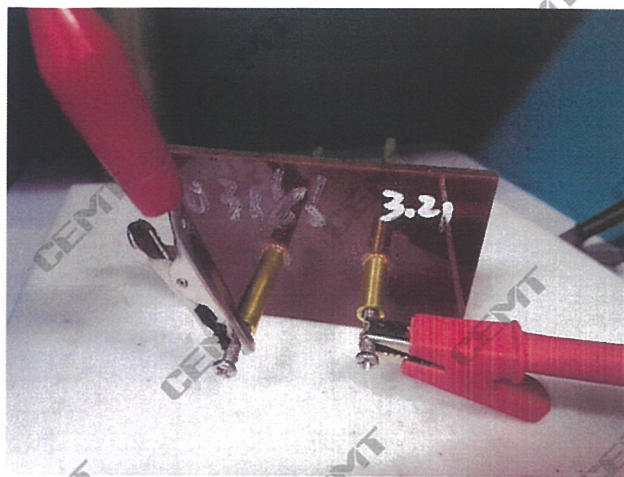


图7 绝缘电阻试验
Fig.7 Insulation resistance test

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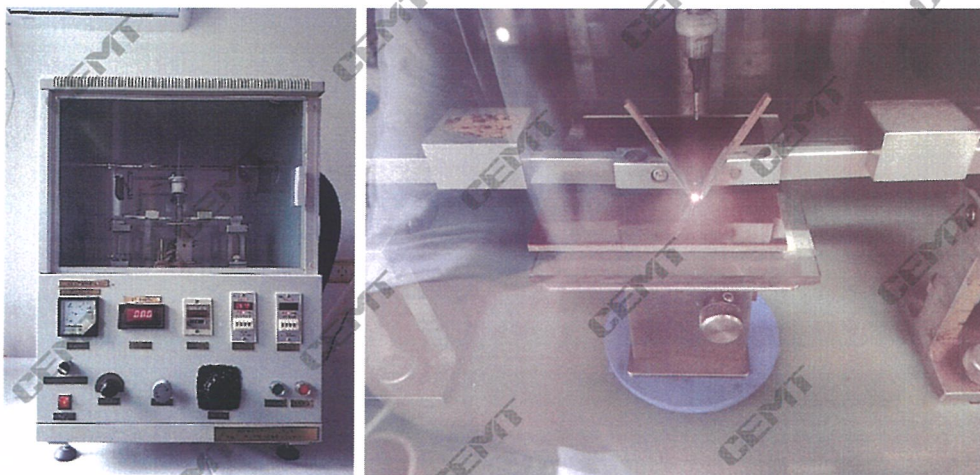


图8 相比电痕化指数 (CTI) 试验
Fig.8 Comparative tracking index(CTI) test

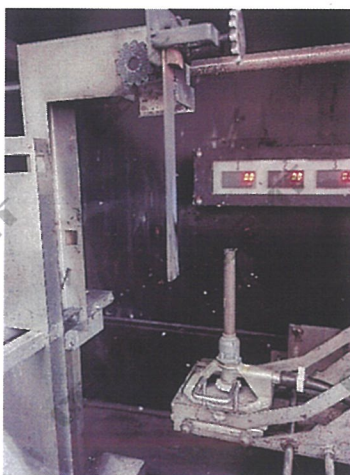


图9 燃烧性(垂直法)试验
Fig.9 Flammability(Vertical method) test

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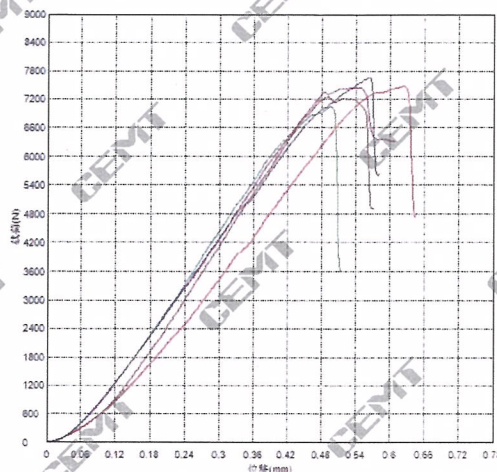
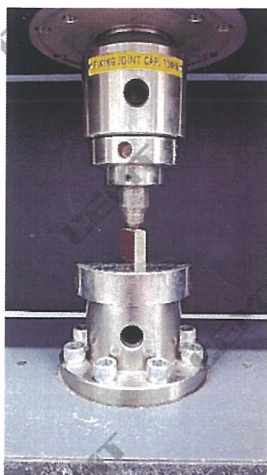


图10 粘合强度试验
Fig.10 Adhesion strength test

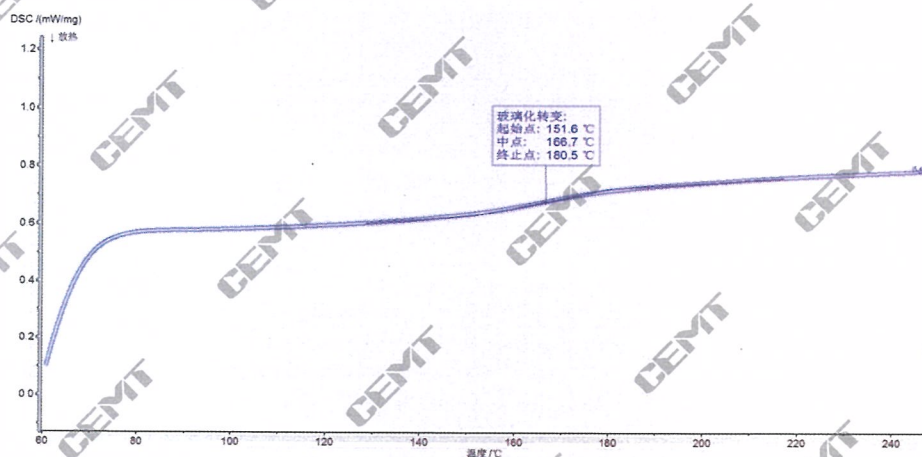


图11 玻璃化转变温度(DSC法)试验曲线
Fig.11 Glass transition temperature(DSC method) test curve

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