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检测
TESTING
CNAS L2021

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

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No: 202203351G1

检 测 报 告

TEST REPORT

产 品 名 称

Name of sample:

EPGC308环氧玻璃布层压板
EPGC308 EPOXY GLASSFIBER LAMINATED SHEET

委 托 单 位

Client:

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

检 测 类 别

Classification of test:

日常委托
Commission 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



扫描全能王 创建

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Declaration

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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.
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检测报告

TEST REPORT

产品名称 Name of sample	EPGC308环氧玻璃布层压板 EPGC308 EPOXY GLASSFIBER LAMINATED SHEET		
型号 Type	EPGC308	规格 Specifications	—
批号和/或生产日期 Lot and/or Manufacture No.	—	商标 Trademark	鑫星
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/Luo Xunhua 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	2022-10-20	完成日期 Test completion date	2022-11-07
检测方法 Test method	ISO 178:2019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: 宋玉侠	
		签发日期: Issue Date: 2022-11-10 批准: Approved by: 检验专用章	



检测报告

TEST REPORT

产品名称/Name of sample : EPGC308环氧玻璃布层压板/EPGC308 EPOXY GLASSFIBER 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 (纵向, 23°C±2°C) Flexural strength perpendicular to laminations(MD,23°C±2°C)	MPa	—	556	ISO 178:2019
2	垂直层向弯曲强度 (纵向, 100°C±2°C) Flexural strength perpendicular to laminations(MD,100°C±2°C)	MPa	—	458	
3	垂直层向弯曲强度 (纵向, 120°C±2°C) Flexural strength perpendicular to laminations(MD,120°C±2°C)	MPa	—	406	
4	垂直层向弯曲强度 (纵向, 150°C±2°C) Flexural strength perpendicular to laminations(MD,150°C±2°C)	MPa	—	347	
5	垂直层向弯曲强度 (纵向, 180°C±2°C) Flexural strength perpendicular to laminations(MD,180°C±2°C)	MPa	—	298	
6	垂直层向弯曲弹性模量 (纵向, 23°C±2°C) Flexural modulus perpendicular to laminations(MD,23°C±2°C)	MPa	—	24252	
7	平行层向简支梁冲击强度 (纵向, 缺口) Charpy impact strength parallel to laminations(MD,Notched)	kJ/m ²	—	111	ISO 179-1:2010
8	拉伸强度 (纵向) Tensile strength(MD)	MPa	—	557	ISO 527-2:2012



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9	垂直层向压缩强度 (23°C ±2°C) Compressive strength perpendicular to laminations(23°C±2°C)	MPa	—	640	ISO 604:2002
10	垂直层向压缩强度 (180°C±2°C) Compressive strength perpendicular to laminations(180°C±2°C)	MPa	—	378	
11	浸水后绝缘电阻(锥销电极, 间距25.0mm) Insulation resistance after immersion in water (Taper pin electrodes, 25.0mm gap)	Ω	—	2.6×10^{14}	IEC 62631-3-3:2015
12	垂直层向电气强度 (90°C ±2°C, 25#变压器油中, 20s逐级升压, Φ25mm/Φ75mm圆柱电极) Electric strength perpendicular to laminations (at 90°C±2°C in 25# transformer oil, 20s step-by-step test, Φ25mm/Φ75mm cylindrical electrode)	kV/mm	—	19.2	IEC 60243-1:2013
13	平行层向击穿电压 (90°C ±2°C, 25#变压器油中, 20s逐级升压, Φ130mm/Φ130mm平板电极) Breakdown voltage parallel to laminations(at 90°C±2°C in 25# transformer oil, 20s step-by-step test, Φ130mm/Φ130mm plate electrode)	kV	—	> 100	
14	相对电容率 (50Hz) Relative Permittivity(50Hz)	—	—	5.20	IEC 60250:1969
15	相对电容率 (1MHz) Relative Permittivity(1MHz)	—	—	5.16	



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16	介质损耗因数 (50Hz) Dielectric dissipation factor(50Hz)	—	—	3.35×10^{-2}	IEC 60250:1969
17	介质损耗因数 (1MHz) Dielectric dissipation factor(1MHz)	—	—	6.45×10^{-3}	
18	相比电痕化指数 (CTI) Comparative tracking index(CTI)	—	—	CTI225	IEC 60112:2003 +A1:2009
19	吸水性 Water absorption	mg	—	9.1	ISO 62:2008
20	密度 Density	g/cm^3	—	1.98	ISO 1183-1:2019 (方法A The method A)
21	导热系数 (23℃) Thermal conductive coefficient(23℃)	$\text{W/(m} \cdot \text{K)}$	—	0.432	ISO 8301: 1991
22	线性热膨胀系数 (30℃~120℃) Coefficient of linear thermal expansion(30℃~120℃)	$10^{-6}/\text{K}$	—	28.5	ISO 11359-2:2021

备注/Remark:

- 第9、10项“垂直层向压缩强度”试验试样的高度为 (9.42~9.65) mm;
The heights of the specimens for Item 9 and Item 10 “Compressive strength perpendicular to laminations” test are (9.42~9.65) mm.
- 第12项“垂直层向电气强度”试验试样的厚度为 (0.94~0.99) mm;
The thickness of the specimens for Item 12 “Electric strength perpendicular to laminations” test are (0.94~0.99) mm.
- 第13项“平行层向击穿电压”试验试样的尺寸为 (101.30~102.56) mm (长) × (25.36~26.47) mm (宽) × (12.20~12.22) mm (厚), 电极间距为 (25.36~26.47) mm;
The sizes of the specimens for Item 13 “Breakdown voltage parallel to laminations” test are (101.30~102.56)mm (length)×(25.36~26.47)mm (width)×(12.20~12.22)mm (thickness). And the electrode spacing is (25.36~26.47)mm.
- 第19项“吸水性”试验试样的尺寸为 (49.94~50.00) mm × (49.81~49.93) mm × (2.72~2.76) mm;
The sizes of the specimens for Item 19 “Water absorption” test are (49.94~50.00)mm×(49.81~49.93)mm×(2.72~2.76)mm.
- 试验过程照片及曲线见图1~图8;
The pictures of the tests and curves are shown in Fig.1~Fig.8.



检测报告 TEST REPORT

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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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6、本报告代替报告编号为202203351的报告。
The report replaces Report No.202203351.

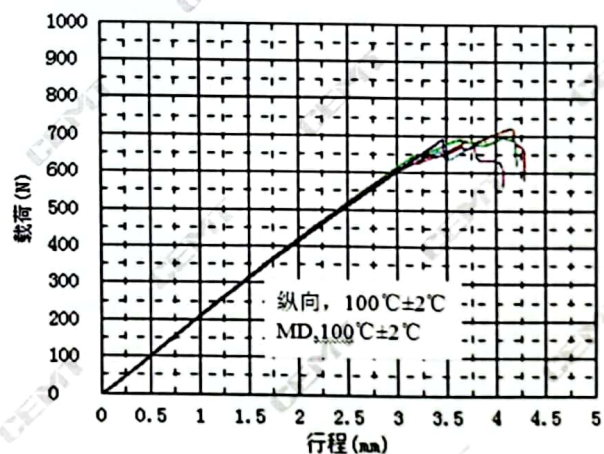
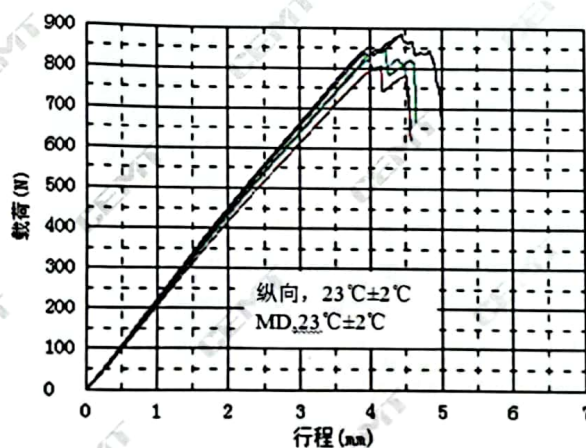
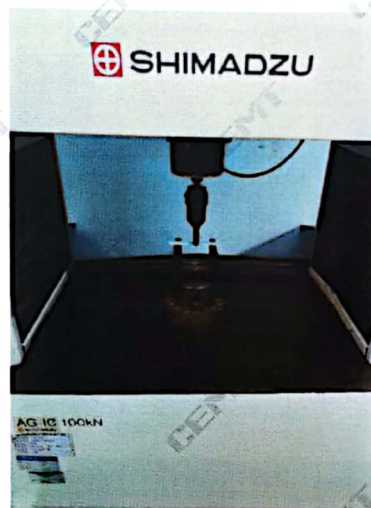


图1 垂直层向弯曲强度试验及曲线
Fig.1 Flexural strength perpendicular to laminations test and curve



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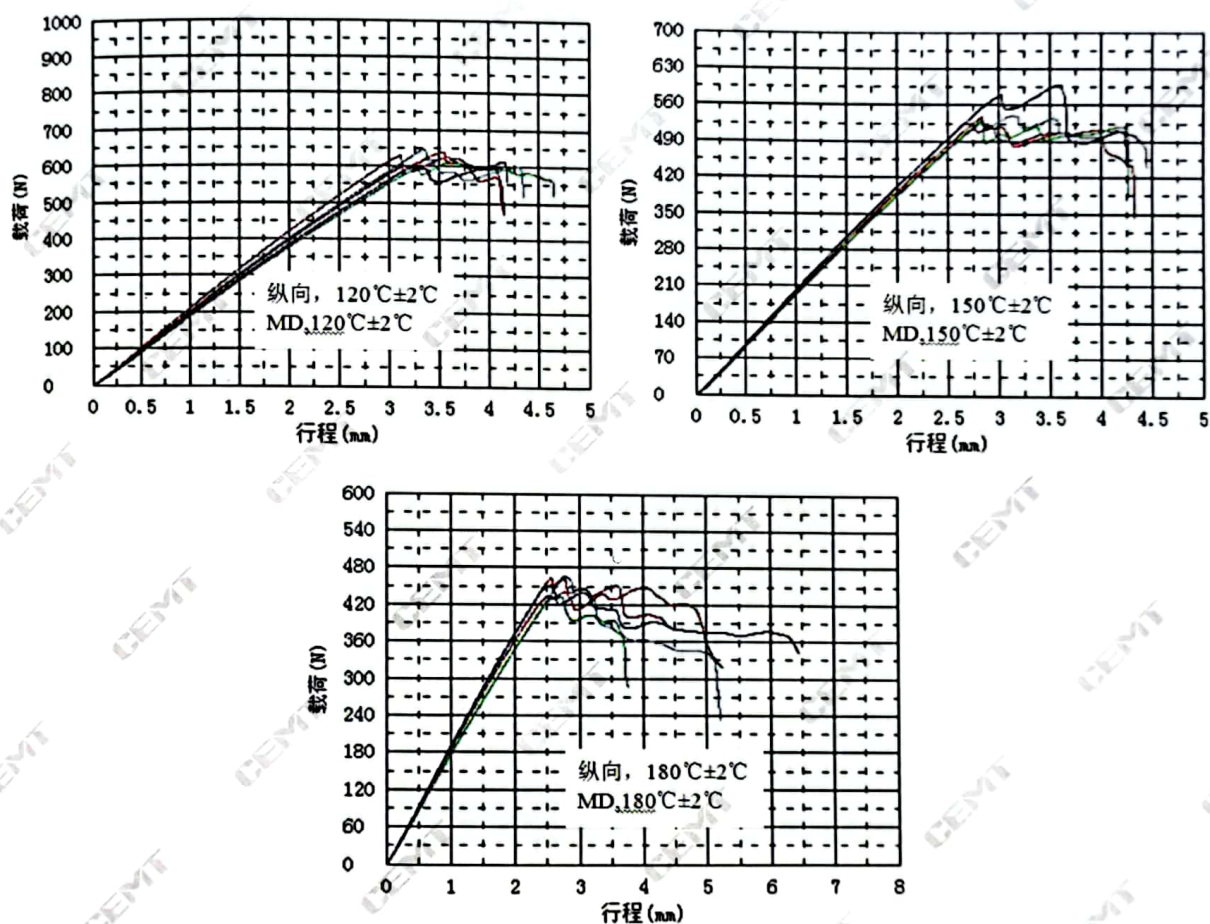


图1 垂直层向弯曲强度试验及曲线(续)

Fig.1 Flexural strength perpendicular to laminations test and curve(continue)



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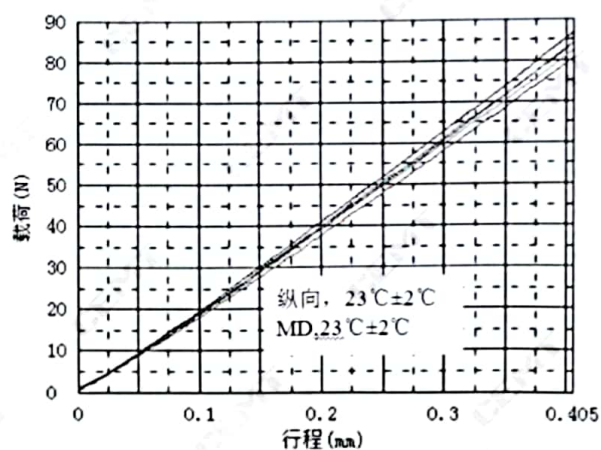
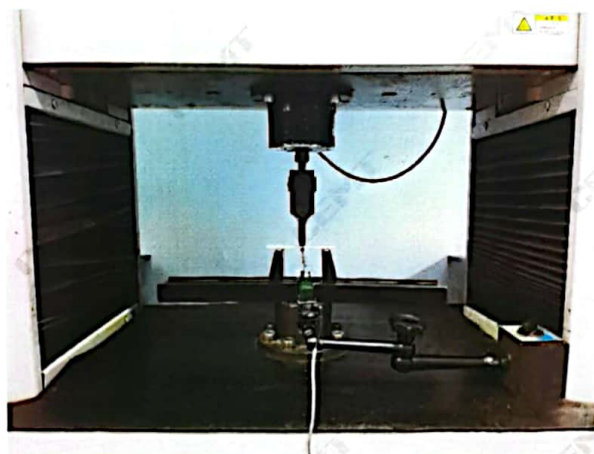


图2 垂直层向弯曲弹性模量试验及曲线

Fig.2 Flexural modulus perpendicular to laminations test and curve

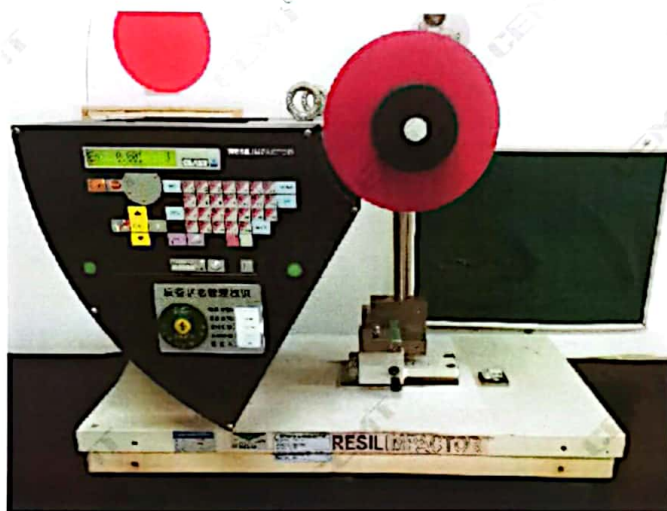


图3 平行层向简支梁冲击强度（纵向，缺口）试验

Fig.3 Charpy impact strength parallel to laminations(MD,Notched) test



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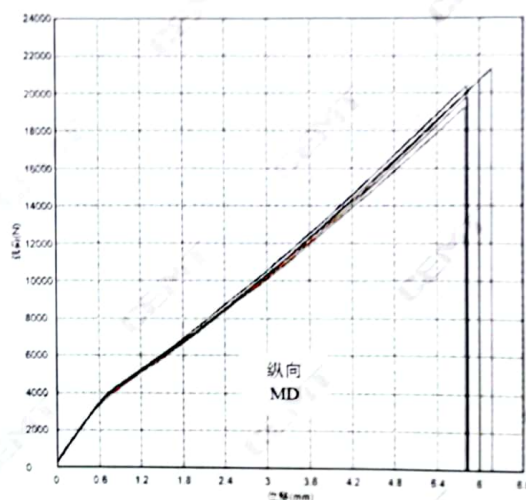


图4 拉伸强度（纵向）试验及曲线
Fig.4 Tensile strength(MD) test and curve



图5 垂直层向压缩强度试验及曲线
Fig.5 Compressive strength perpendicular to laminations test and curve



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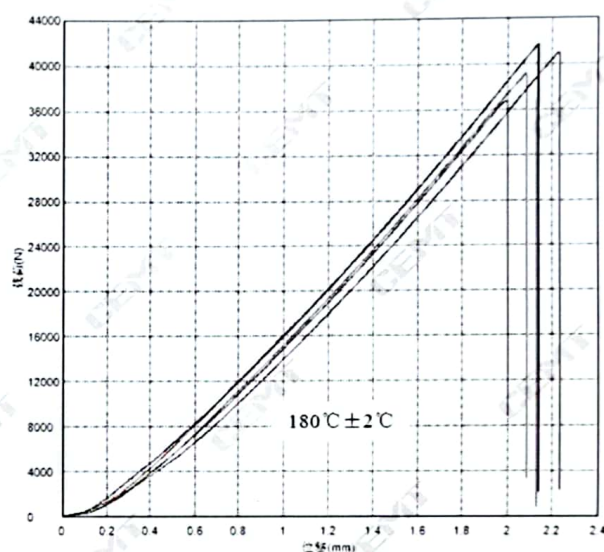
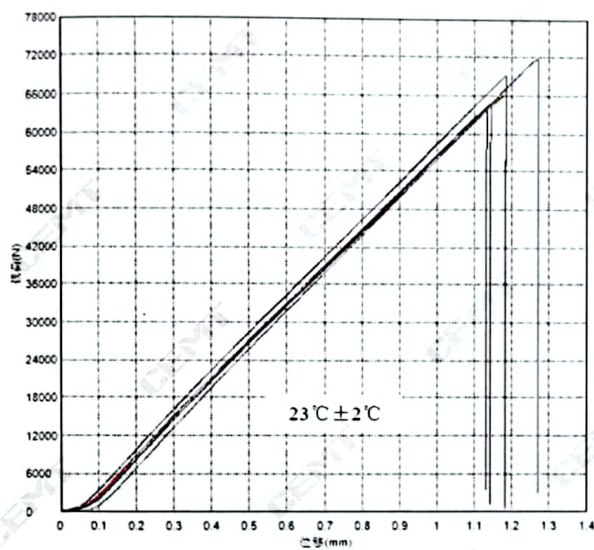


图5 垂直层向压缩强度试验及曲线（续）
Fig.5 Compressive strength perpendicular to laminations test and curve(continue)

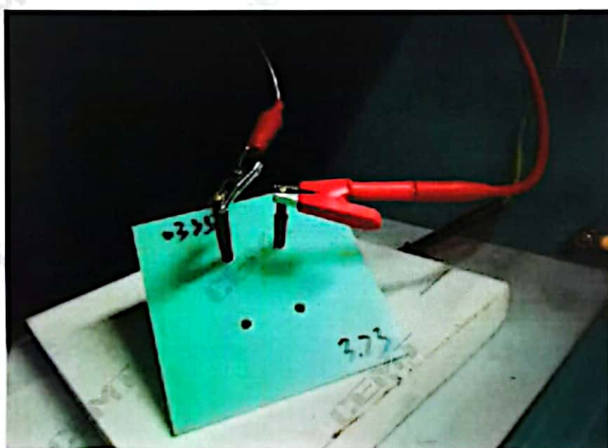


图6 浸水后绝缘电阻试验
Fig.6 Insulation resistance after immersion in water test



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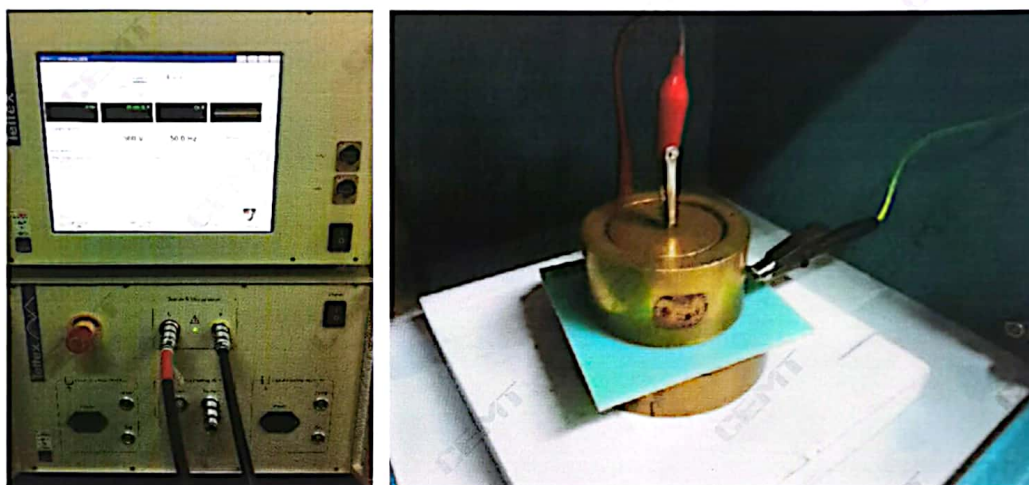


图7 相对电容率及介质损耗因数（50Hz）试验
Fig.7 Relative permittivity and Dielectric dissipation factor(50Hz) test



图8 相对电容率及介质损耗因数（1MHz）试验
Fig.8 Relative permittivity and Dielectric dissipation factor(1MHz) test

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