



TEST REPORT

No. : SHMR090401161

Date : Apr.14,2009

Page: 1 of 7

ITW ELECTRONIC COMPONENTS/PRODUCTS (SHANGHAI) CO., LTD.
BUILDING 5, 789 SHENFU ROAD, XINZHUANG INDUSTRIAL PARK, SHANGHAI, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : FORMEX GK-17 BK
Sample No. : SHMR090401161
Product specification : FORMEX GK-17 BK
Date of Receipt : Apr.02,2009
Test Period : Apr.02,2009 to Apr.13,2009

Test result(s) : For further details, please refer to the following page(s)

***** To be continued*****

Signed for SGS-CSTC Standards
Technical Services Co., Ltd

Ivy Zhu

Ivy Zhu
Lab Technical Supervisor

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Member of the SGS Group (SGS SA)

TEST REPORT

No. : SHMR090401161

Date : Apr.14,2009

Page: 2 of 7

1. Temperature rapid change test #1 (refer to IEC 60068-2-14 Nb: 1986 & as per client's requirement)

1.1 Test conditioning:

- Step 1: Expose sample to room temperature (23°C/ 50%RH) for 1 hour.
- Step 2: Change time: 1 hour. (23°C→-55°C)
- Step 3: Expose sample to cold temperature (-55°C) for 24 hours.
- Step 4: Change time: 1 hour. (-55°C→23°C)
- Step 5: Expose sample to room temperature (23°C/ 50%RH) for 24 hours.

1.2 Test sample:

- Sample condition: Unpacked
- Sample No.: #1~#4 (Group one)
- Quantity: Total 4 pcs

1.3 Requirement:

- 1.3.1 Visual checks the test sample after test and record any defect.

1.4 Test Result (The test data were provided to the client for their own analysis):

Sample No.	Visual check after test
#1~#4 (Group one)	No signs of cracking, discoloration or bubbling after test.

*****To be continued*****

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TEST REPORT

No. : SHMR090401161

Date : Apr.14,2009

Page: 3 of 7

1.5 Test photos:



*****To be continued*****

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TEST REPORT

No. : SHMR090401161

Date : Apr.14,2009

Page: 4 of 7

2. Temperature rapid change test #2 (refer to IEC 60068-2-14 Nb: 1986 & as per client's requirement)

2.1 Test conditioning:

- Step 1: Expose sample to room temperature (23°C/ 50%RH) for 1 hour.
- Step 2: Change time: 1 hour. (23°C→-55°C)
- Step 3: Expose sample to cold temperature (-55°C) for 48 hours.
- Step 4: Change time: 1 hour. (-55°C→23°C)
- Step 5: Expose sample to room temperature (23°C/ 50%RH) for 48 hours.

2.2 Test sample:

- Sample condition: Unpacked
- Sample No.: #1~#4 (Group two)
- Quantity: Total 4 pcs

2.3 Requirement:

2.3.1 Visual checks the test sample after test and record any defect.

2.4 Test Result (The test data were provided to the client for their own analysis):

Sample No.	Visual check after test
#1~#4 (Group two)	No signs of cracking, discoloration or bubbling after test.

*****To be continued*****

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TEST REPORT

No. : SHMR090401161

Date : Apr.14,2009

Page: 5 of 7

2.5 Test photos:



*****To be continued*****

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TEST REPORT

No. : SHMR090401161

Date : Apr.14,2009

Page: 6 of 7

3. High potential test (Refer to IPC-TM-650 2.5.6.1 & per client's requirement)

3.1 Test sample:

Sample No.: #1~#4 (Group one), #1~#4 (Group two)

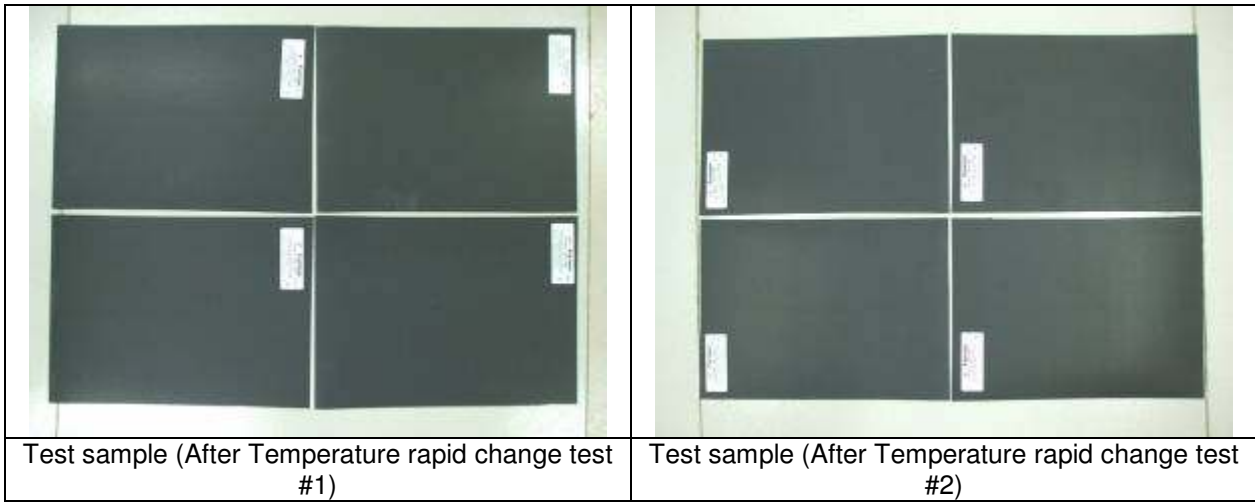
Quantity: Total 8 pcs

3.2 Test result

High potential test (3000VAC/1minute)					
Sample No.		#1	#2	#3	#4
Test result	Temperature rapid change test #1	Pass	Pass	Pass	Pass
	Temperature rapid change test #2	Pass	Pass	Pass	Pass

Note: 1.Pass = No signs of breakdown, flashover or leakage.

3.3 Test photo:



*****To be continued*****

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TEST REPORT

No. : SHMR090401161

Date : Apr.14,2009

Page: 7 of 7

4. Appendix information:

Test equipment:

Name	Model	Equipment No.	Due date
High Voltage Insulation Tester	AR3126	POLY-I-088	2009.06.25
Humidity chamber	CH600CES	POLY-I-263	2009.11.03

Lab Environmental Conditions:

Ambient temperature: 15°C ~ 35°C

Relative humidity: 25%R.H. ~ 75%R.H.

- The test was carried out by SGS Guangzhou laboratory.

***** End of report *****

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