



TEST REPORT

No. : GZMR110818076

Date : Sep 15, 2011

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HAINAN FUWANG INDUSTRIAL CO., LTD
9B, BEIJING BUILDING, NO.56 GUOMAO AVENUE, HAIKOU, CHINA

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

Sample Name : MAGNETIC WEDGE LAMINATED SHEET
Spec. : 3248F
SGS Ref No. : GP110801221
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : Aug 12, 2011
Test Period : Aug 12, 2011 to Sep 02, 2011

Test result(s) : Please refer to the following page(s)

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

Signed for and on behalf of
SGS-CSTC Ltd.

May Huo
Engineer

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Test Information:

Sample description: Plastic part (see photo)

No.	Test item	Test method	Test condition	Result	Client's requirement	Conclusion
1	Flexural strength (23±2°C)	DIN EN ISO 178: 2006	Specimen: 80×10.77×4.42mm Testing speed: 2.0mm/min Span: 70mm	254MPa	≥220MPa	Pass
2	Flexural strength (155±2°C)	DIN EN ISO 178: 2006 and client's requirement	Precondition: 155±2°C, 1h Test condition: 155±2°C Specimen: 80×10.74×4.43mm Testing speed: 2.0mm/min Span: 70mm	212MPa	≥160MPa	Pass
3	Flexural modulus (23±2°C)	DIN EN ISO 178: 2006	Specimen: 80×10.77×4.42mm Testing speed: 2.0mm/min Span: 70mm	16880MPa	≥1.6×10 ⁴ MPa	Pass
4	Flexural modulus (155±2°C)	DIN EN ISO 178: 2006 and client's requirement	Precondition: 155±2°C, 1h Test condition: 155±2°C Specimen: 80×10.74×4.43mm Testing speed: 2.0mm/min Span: 70mm	14020MPa	≥1.1×10 ⁴ MPa	Pass
5	CHARPY unnotched Impact strength	DIN EN ISO 179-1:2006	Specimen: DIN EN ISO 179-1/1eU Specimen thickness: 4.50mm The capacity of pendulum: 5J	72kJ/m ² C(complete break)	≥50kJ/m ²	Pass

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

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No.	Test item	Test method	Test condition	Result	Client's requirement	Conclusion
6	Surface resistivity	DIN IEC 60093:1993	Condition: 23±2°C, 50±5%RH Applied voltage: 250V Electrification time: 1 min	2×10 ¹² Ω	---	---
7	Volume resistivity		Condition: 23±2°C, 50±5%RH Applied voltage: 250V Electrification time: 1 min Specimen thickness: 4.41mm	2×10 ¹² Ω·cm	≥1.0×10 ⁶ Ω·cm	Pass
8	Magnetic Induction	As client's requirement, analyzed by LDJ9500 Vibrating sample magnetometer	23±2°C	See table 1	---	---
9	Relative permeability rate			See table 2	---	---
10	Glass transition temperature (Tg)	With reference to ISO 11357-2:1999, analysis was performed by DSC.	Temperature range: 40~250°C Ramp: 20°C/min N ₂ : 50ml/min	213.9°C	---	---

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

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No.	Test item	Test method	Test condition	Result	Client's requirement	Conclusion
11	Density	DIN EN ISO 1183-1:2004 Method A	Absolute alcohol, 23±0.5°C	3.525g/cm ³	3.5±0.2 g/cm ³	Pass
12	Color	As client's requirement, check by naked eyes	23±2°C, 50±5%RH	Grey-Black	---	---

Table 1:

Magnetic induction for different magnetic field intensity, B		
100kA/m	200kA/m	300kA/m
0.520	0.758	0.940

Table 2:

Relative permeability rate for different magnetic induction, μ_r		
0.3T	0.5T	0.7T
5.54	4.19	3.24

- Note: 1. Test specimens of test item 11 and 12 were cut from the sample.
 2. The test item 8~9 have been subcontracted to the accredited laboratory.

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

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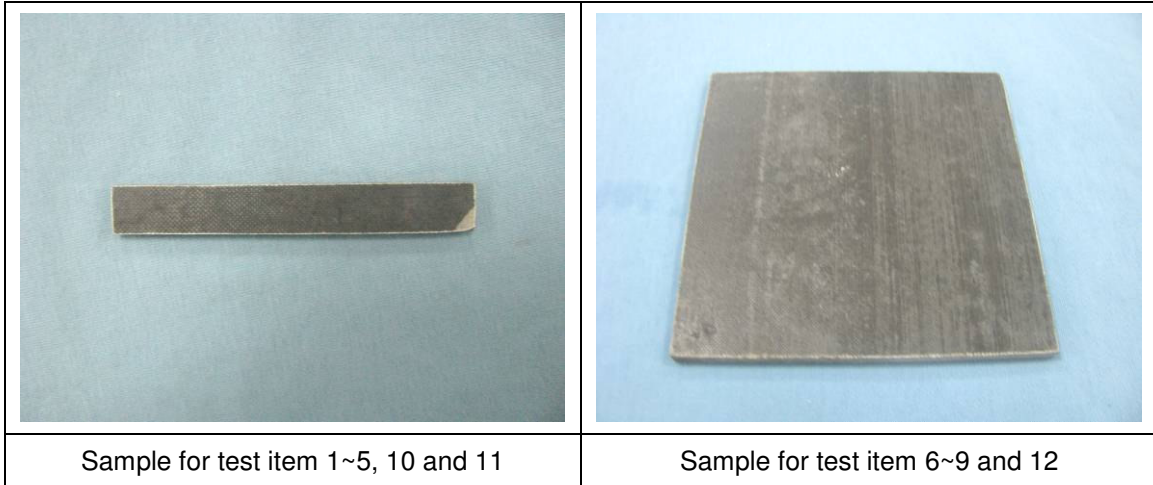
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Photo:



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

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