TEST REPORT

No. : NBMLP140600298
Date : Jul.15,2014

HANGZHOU JINMENG ROAD ESTABLISHMENT CO., LTD.
FANGYUAN INDUSTRIAL PARK, YUQIAN TOWN, LIN'AN CITY, HANGZHOU, ZHEJIANG, P.R.CHINA

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

Sample Name	:	COMPOSITE MANHOLE COVER
Sample No.	:	NBMLP140600298
SGS Ref. No.	:	HZMLP140600034
Material and Mark	:	SMC
Manufacturer	:	HANGZHOU JINMENG ROAD ESTABLISHMENT CO., LTD.
Test Required	:	Selected test(s) as requested by applicant
Date of Receipt	:	Jun.25,2014
Test Period	:	Jun.25,2014 to Jul.15,2014
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

Lorin Yan
Section Supervisor

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1. Test Item: Flexural Test

Sample Description: See photo

Test Method: BS 2782-10:Method 1005:1977

Test Condition:

Specimen: 100 mm×15.32 mm×4.98 mm

Testing speed: 2.5 mm/min

Span: 80 mm

Lab Environmental Condition: 23±2℃, 50±5%RH

Test Result:

Test Item	Test Result
Flexural Strength	165 MPa
Flexural Modulus	12500 MPa

Original data:

Specimen	1	2	3	4	5	6	7	8	9	10	Average
Flexural Strength, MPa	228.9	285.1	153.9	159.9	102.6	118.0	172.0	109.9	144.5	174.3	165
Flexural Modulus, MPa	14510	15680	12550	10910	10910	12810	12680	10240	12270	12520	12500

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

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2. Test Item: Tensile Stress at Break

Sample Description: See photo

Test Method: ASTM D5083-10

Test Condition:

Specimen width: 23.55 mm

Specimen thickness: 13.17 mm

Testing speed: 5 mm/min

Grip separation: 150 mm

Lab Environmental Condition: 23±2℃, 50±5%RH

Test Result:

Test Item	Test Result
Tensile Stress at Break	103 MPa

3. Test Item: Water Absorption

Sample Description: See photo

Test Method: GB/T 1462-2005 Method 1

Test Condition:

Specimen: 50 mm×50 mm×6.10 mm

Initial drying condition: 50±2℃, 24h

Immersion condition: 23±2℃, 24h

Final drying condition: 50±2℃, 24h

Lab Environmental Condition: 23±2℃, 50±5%RH

Test Result:

Test Item	Test Result
Water Absorption	0.08 %

Note: Water Absorption, %=(Mass after immersion-Mass after final drying)/Mass after initial drying and before immersion×100

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

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4. Test Item: Compressive Strength

Sample Description: See photo

Test Method: ASTM D3410/D3410M-03(2008)

Test Condition:

Specimen width: 24.08 mm

Specimen thickness: 5.92 mm

Testing speed: 1.5 mm/min

Lab Environmental Condition: 23±2℃, 50±5%RH

Test Result:

Test Item	Test Result
Compressive Strength	192 MPa

Note: Mode Failure: SGV.

Photo:



Sample for test item 1



Sample for test item 2

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

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Sample for test item 3	Sample for test item 4

- All above tests were carried out by a SGS laboratory.

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

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