

#### Material & Engineering Laboratory-Taichung

### TEST REPORT

TV-14-00883X REPORT NO.

PAGE NO.

1 OF 3

DATE

Apr. 21, 2014

Client

COJAAL CONSORTIUM JAPONAIS POUR L'AUTOROUTE ALGERIENNE

Supplier

GOODWILL FIBERGLASS CORP.

**Product Description** 

GLASS-FIBER REINFORCED PLASTIC TUBE  $\phi$  76mm

Style/ Item No.

GFRP(Lot No.7614014,1500PC)

Color

WHITE

Submitted By

GOODWILL FIBERGLASS CORP.

Received Date

Apr. 2, 2014

**Tested Date** 

Apr. 2, 2014~Apr. 21, 2014

Remark

The information mentioned in the above section is provided by Client

(Exclude Date of Sample Received and Date of Testing)

#### Test Result:

Test Item	Test Method	Result
Density(g/cm <sup>3</sup> )	NF EN ISO 1183-1:2004 Method A	2.05
Glass Content(%)	NF EN ISO 1172:2004	76
Tensile Strength(MPa)	NF EN ISO 527-4:1997	1121
Flexural Modulus(MPa)	NF EN ISO 14125:1998	43891
Shear Strength(MPa)	ASTM D732-10	135

Note: 1.Tensile strength test rate 5mm/min.

2. Test sample was provided by applicant.

---1---

For and on behalf of WECAND ENTERPRISE CO., LTD.

Authorized Signature(s)

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

and on behalf of SGS TAIWAN Ltd.

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## TEST REPORT

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REPORT NO.

TV-14-00883X

PAGE NO.

2 OF 3

DATE

Apr. 21, 2014

### Test Photo:









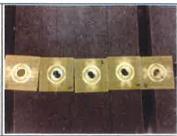
Tensile Strength Test

Glass Content









Flexural Modulus Test

Shear Strength



Density

---2---

For and on behalf of

WECAND ENTERPRISE CO., LTD.

Authorized Signature(s)

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Signed for and on behalf of SGS TAIWAN Ltd.

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REPORT NO.

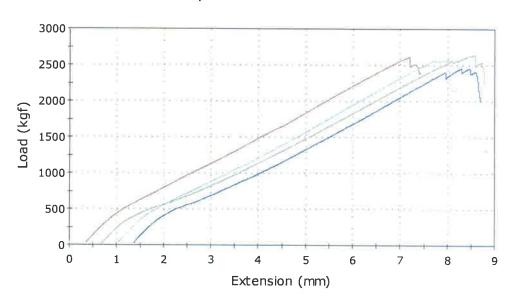
TV-14-00883X 3 OF 3

PAGE NO. **DATE** 

Apr. 21, 2014

# Tensile Strength test Curve

# Specimen 1 to 5



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