

21 May 2011

Mr. Mao Xianzhong
Feicheng Jiangyi Engineering Plastics Co. Ltd.
Feicheng New Hightech Development Zone
Shandong, China

Subject: Laboratory Test
Geotext Testing
50-50, 80-80, 100-100 Fiberglass Geotexts

TENSILE TEST RESULTS

Dear Mr. Mao,

SGI Testing Services, LLC (SGI) is pleased to present the attached test results for the above-mentioned testing program. The note section below addresses sample preparation, sample disposal and a disclosure statement.

SGI appreciates the opportunity to provide laboratory testing services to Feicheng Jiangyi Engineering Plastics Co. Ltd. Should you have any questions regarding the attached document(s), or if you require additional information, please do not hesitate to contact the undersigned.

Sincerely,

Zhong Yuan, Ph.D., P.E.
Laboratory Manager

Attachments

NOTE:
(1) SGI Testing Services, LLC (SGI) is pleased to present the attached test results for the above-mentioned testing program. The note section below addresses sample preparation, sample disposal and a disclosure statement.
(2) SGI Testing Services, LLC (SGI) is pleased to present the attached test results for the above-mentioned testing program. The note section below addresses sample preparation, sample disposal and a disclosure statement.
(3) SGI Testing Services, LLC (SGI) is pleased to present the attached test results for the above-mentioned testing program. The note section below addresses sample preparation, sample disposal and a disclosure statement.

SGI TEST REPORT 2011 05 21 001

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P.O. Box 2427
Lakeland, GA 30026-2427
WWW.SGI-TESTING.COM
PHONE: 770.931.8282 FAX: 770.931.8280
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4405 INTERNATIONAL BLVD., SUITE B-117
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SGI TESTING SERVICES

A GEORGIA LIMITED LIABILITY COMPANY

21 May 2011

Mr. Mao Xianzhong
Feicheng Lianyi Engineering Plastics Co, Ltd
Feicheng New Hightech Development Zone
Shandong, China

Subject: Laboratory Test Results Transmittal
Geogrid Testing
50-50, 80-80, 100-100 Fiberglass Geogrids

Dear Mr. Mao,

SGI Testing Services, LLC (SGI) is pleased to present the attached test results for the above-mentioned testing program. The note section below addresses sample preparation, sample disposal and a disclosure statement.

SGI appreciates the opportunity to provide laboratory testing services to Feicheng Lianyi Engineering Plastics Co Ltd. Should you have any questions regarding the attached document(s), or if you require additional information, please do not hesitate to contact the undersigned.

Sincerely,

Zehong Yuan, Ph.D., P.E.
Laboratory Manager

Attachments

NOTES:

- (1) Unless otherwise noted in the test results the sample(s)/specimen(s) were prepared in accordance with the applicable test standards or generally accepted sampling procedures.
- (2) Contaminated/chemical samples and all related laboratory generated waste (i.e., test liquids, PPE, absorbents, etc.) will be returned to the client or designated representative(s), at the client's cost, within 60 days following the completion of the testing program, unless special arrangements for proper disposal are made with SGI.
- (3) Materials that are not contaminated will be discarded after test specimens and archived specimens are obtained. Archived specimens will be discarded 30 days after the completion of the testing program, unless long-term storage arrangements are specifically made with SGI.
- (4) The reported results apply only to the materials and test conditions used in the laboratory testing program. The results do not necessarily apply to other materials or test conditions. The test results should not be used in engineering analysis unless the test conditions model the anticipated field conditions. The testing was performed in accordance with general engineering testing standards and requirements. The reported results are submitted for the exclusive use of the client to whom they are addressed.

SGI11001.REPORT.2011.08.FIBERGLASS.

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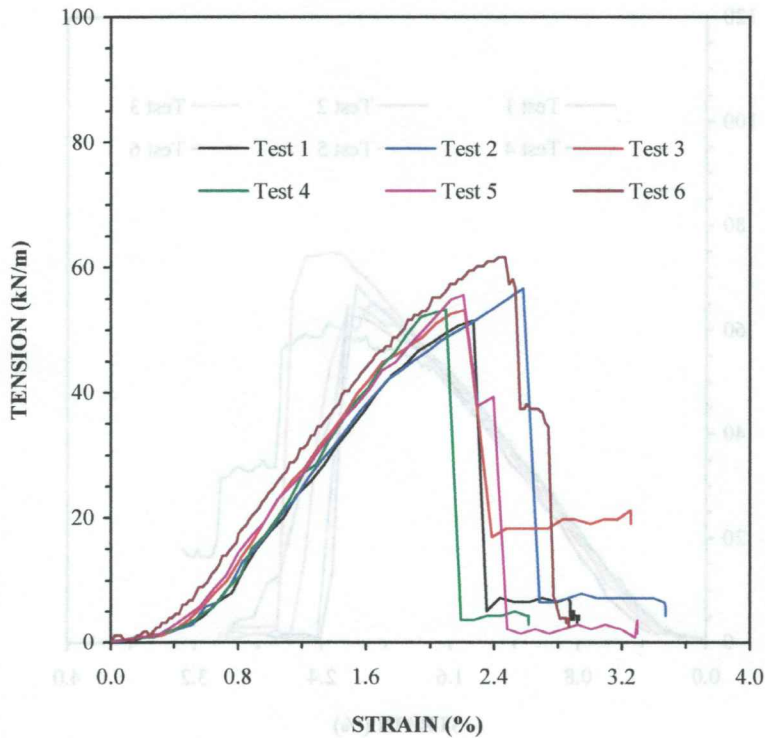
WEB SITE: WWW.INTERACTIONSPECIALISTS.COM

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PHONE: 770.931.8222 FAX: 770.931.8240

FEICHENG LIANYI ENGINEERING PLASTICS CO., LTD
GEOGRID TENSILE PROPERTIES BY SINGLE-RIB METHOD (ASTM D 6637)

50-50 Fiberglass Geogrid Sample #2 in Machine Direction
 SGI Lab Sample ID: S15884



Test No.	Tension at 2% (kN/m)	Tension at 5% (kN/m)	Tension at 10% (kN/m)	Ultimate Strength (kN/m)	Strain at Ultimate (%)
1	47.8	NA	NA	51.3	2.2
2	47.1	NA	NA	56.8	2.6
3	50.1	NA	NA	53.3	3.0
4	52.6	NA	NA	53.4	2.1
5	51.2	NA	NA	55.7	2.2
6	54.3	NA	NA	61.7	2.4
Mean	50.5	NC	NC	55.4	2.4
STD	2.8	NC	NC	3.6	0.3

NOTES:

Clamp: Curtis Sure Grip, Inc. (Curtis) GeoGrips
 Specimen Width (ribs): 1
 Rib Count (ribs/m): 39.4
 Specimen Length (mm): 450
 Slack Correction (N): NA
 Strain Rate (% per minute): 10

DATE REPORTED 4/20/2011



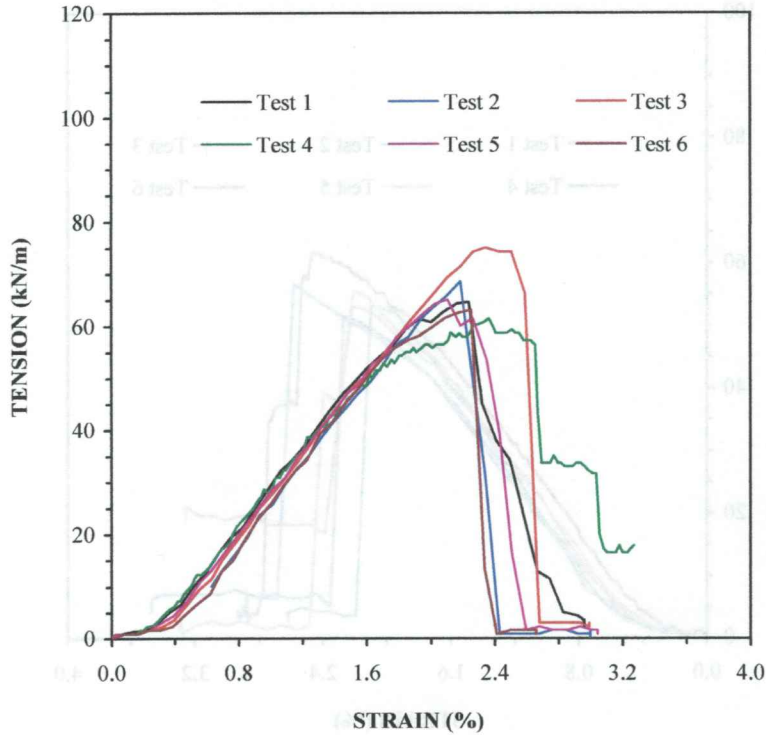
SGI TESTING SERVICES, LLC

FIGURE NO. 1
 PROJECT NO. SGI11001
 DOCUMENT NO.
 FILE NO.

FEICHENG LIANYI ENGINEERING PLASTICS CO., LTD
GEOGRID TENSILE PROPERTIES BY SINGLE-RIB METHOD (ASTM D 6637)

50-50 Fiberglass Geogrid Sample #2 in Cross-Machine Direction

SGI Lab Sample ID: S15884



Test No.	Tension at 2% (kN/m)	Tension at 5% (kN/m)	Tension at 10% (kN/m)	Ultimate Strength (kN/m)	Strain at Ultimate (%)
1	60.7	NA	NA	64.6	2.2
2	63.0	NA	NA	68.5	2.2
3	65.5	NA	NA	75.0	2.3
4	56.1	NA	NA	61.3	2.4
5	63.6	NA	NA	65.0	2.1
6	59.6	NA	NA	63.1	2.2
Mean	61.4	NC	NC	66.3	2.2
STD	3.3	NC	NC	4.9	0.1

NOTES:

Clamp: Curtis Sure Grip, Inc. (Curtis) GeoGrips
 Specimen Width (ribs): 1
 Rib Count (ribs/m): 39.4
 Specimen Length (mm): 450
 Slack Correction (N): NA
 Strain Rate (% per minute): 10



SGI TESTING SERVICES, LLC

DATE REPORTED 4/20/2011

FIGURE NO. 2

PROJECT NO. SGI11001

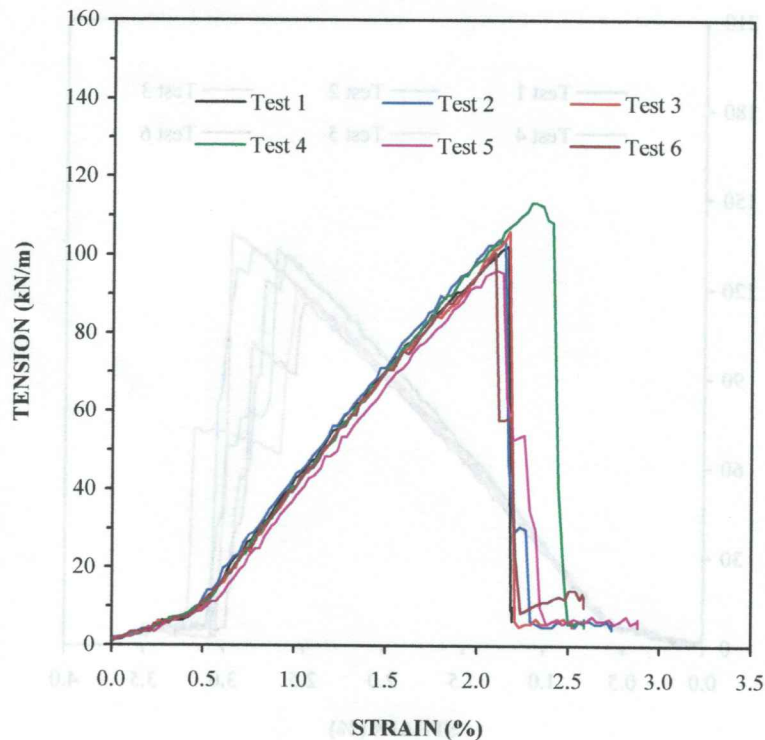
DOCUMENT NO.

FILE NO.

FEICHENG LIANYI ENGINEERING PLASTICS CO., LTD
GEOGRID TENSILE PROPERTIES BY SINGLE-RIB METHOD (ASTM D 6637)

80-80 Fiberglass Geogrid in Machine Direction

SGI Lab Sample ID: S15684



Test No.	Tension at 2% (kN/m)	Tension at 5% (kN/m)	Tension at 10% (kN/m)	Ultimate Strength (kN/m)	Strain at Ultimate (%)
1	95.1	NA	NA	102.3	2.2
2	99.5	NA	NA	104.1	2.1
3	95.4	NA	NA	106.2	2.2
4	98.4	NA	NA	114.1	2.3
5	92.0	NA	NA	97.0	2.1
6	95.5	NA	NA	100.7	2.1
Mean	96.0	NC	NC	104.1	2.2
STD	2.7	NC	NC	5.8	0.1

NOTES:

Clamp: Curtis Sure Grip, Inc. (Curtis) GeoGrips
 Specimen Width (ribs): 1
 Rib Count (ribs/m): 39.4
 Specimen Length (mm): 450
 Slack Correction (lbs): NA
 Strain Rate (% per minute): 10

DATE REPORTED 1/30/2011



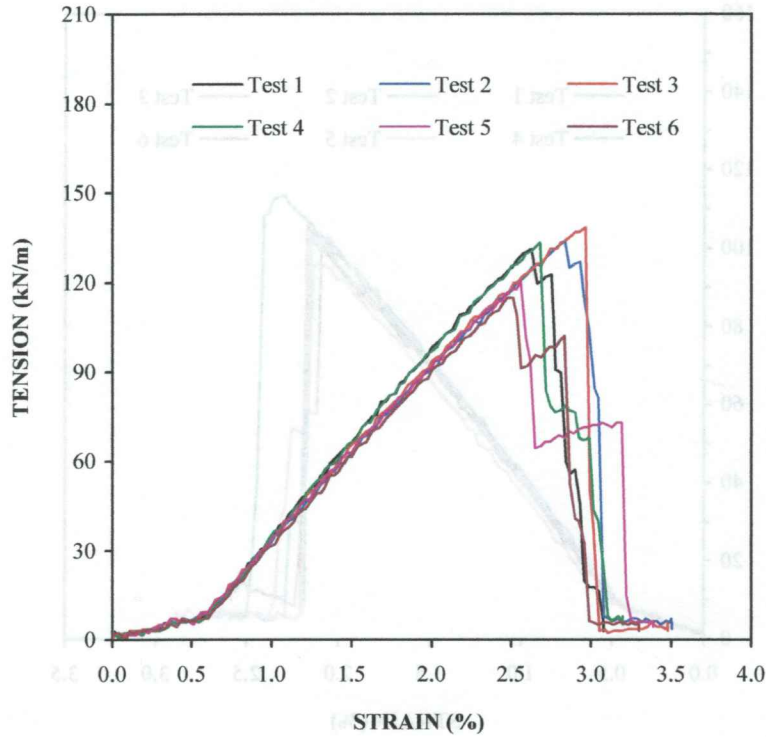
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FIGURE NO. 3
 PROJECT NO. SGI11001
 DOCUMENT NO.
 FILE NO.

FEICHENG LIANYI ENGINEERING PLASTICS CO., LTD
GEOGRID TENSILE PROPERTIES BY SINGLE-RIB METHOD (ASTM D 6637)

80-80 Fiberglass Geogrid in Cross-Machine Direction

SGI Lab Sample ID: S15684



Test No.	Tension at 2% (kN/m)	Tension at 5% (kN/m)	Tension at 10% (kN/m)	Ultimate Strength (kN/m)	Strain at Ultimate (%)
1	98.1	NA	NA	131.9	2.6
2	91.1	NA	NA	134.0	2.8
3	93.2	NA	NA	138.3	3.0
4	96.9	NA	NA	133.3	2.7
5	91.5	NA	NA	120.5	2.6
6	90.3	NA	NA	116.9	2.5
Mean	93.5	NC	NC	129.1	2.7
STD	3.3	NC	NC	8.5	0.2

NOTES:

Clamp: Curtis Sure Grip, Inc. (Curtis) GeoGrips
 Specimen Width (ribs): 1
 Rib Count (ribs/m): 39.4
 Specimen Length (mm): 450
 Slack Correction (lbs): NA
 Strain Rate (% per minute): 10



SGI TESTING SERVICES, LLC

DATE REPORTED 1/30/2011

FIGURE NO. 4

PROJECT NO. SGI11001

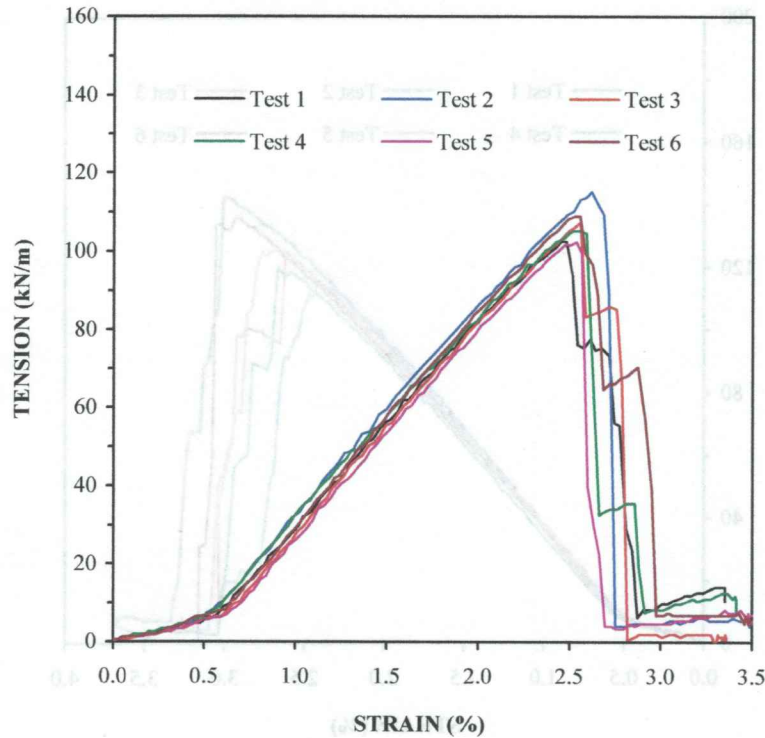
DOCUMENT NO.

FILE NO.

FEICHENG LIANYI ENGINEERING PLASTICS CO., LTD
GEOGRID TENSILE PROPERTIES BY SINGLE-RIB METHOD (ASTM D 6637)

100-100 Fiberglass Geogrid in Machine Direction

SGI Lab Sample ID: S15685



Test No.	Tension at 2% (kN/m)	Tension at 5% (kN/m)	Tension at 10% (kN/m)	Ultimate Strength (kN/m)	Strain at Ultimate (%)
1	82.1	NA	NA	103.9	2.5
2	86.4	NA	NA	115.3	2.6
3	82.2	NA	NA	107.5	2.6
4	82.8	NA	NA	105.3	2.5
5	80.1	NA	NA	102.5	2.5
6	85.0	NA	NA	108.9	2.5
Mean	83.1	NC	NC	107.2	2.5
STD	2.3	NC	NC	4.6	0.0

NOTES:

Clamp: Curtis Sure Grip, Inc. (Curtis) GeoGrips
 Specimen Width (ribs): 1
 Rib Count (ribs/m): 39.4
 Specimen Length (mm): 450
 Slack Correction (lbs): NA
 Strain Rate (% per minute): 10

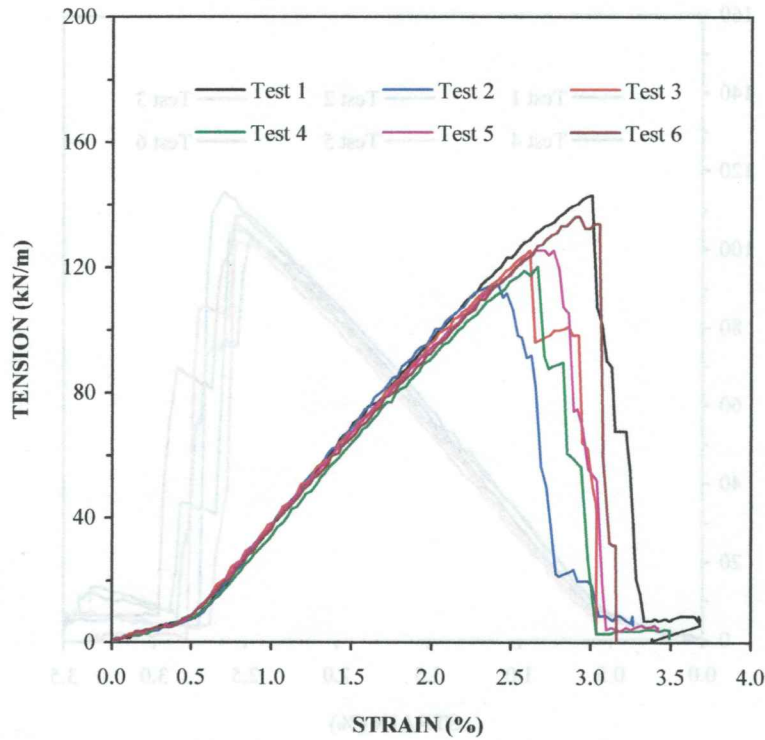
DATE REPORTED 1/30/2011



SGI TESTING SERVICES, LLC

FIGURE NO. 5
 PROJECT NO. SGI11001
 DOCUMENT NO.
 FILE NO.

FEICHENG LIANYI ENGINEERING PLASTICS CO., LTD
GEOGRID TENSILE PROPERTIES BY SINGLE-RIB METHOD (ASTM D 6637)
 100-100 Fiberglass Geogrid in Cross-Machine Direction
 SGI Lab Sample ID: S15685



Test No.	Tension at 2% (kN/m)	Tension at 5% (kN/m)	Tension at 10% (kN/m)	Ultimate Strength (kN/m)	Strain at Ultimate (%)
1	97.1	NA	NA	143.8	3.0
2	98.0	NA	NA	114.6	2.4
3	96.1	NA	NA	125.3	2.6
4	91.0	NA	NA	120.3	2.6
5	94.4	NA	NA	125.3	2.6
6	92.8	NA	NA	136.0	2.9
Mean	94.9	NC	NC	127.6	2.7
STD	2.7	NC	NC	10.6	0.2

NOTES:

Clamp: Curtis Sure Grip, Inc. (Curtis) GeoGrips
 Specimen Width (ribs): 1
 Rib Count (ribs/m): 39.4
 Specimen Length (mm): 450
 Slack Correction (lbs): NA
 Strain Rate (% per minute): 10



SGI TESTING SERVICES, LLC

DATE REPORTED 1/30/2011

FIGURE NO. 6
 PROJECT NO. SG11001
 DOCUMENT NO.
 FILE NO.