Test Reports



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

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Tel: (852) 2873 6860 Fax: (852) 2555 7533

A CIGIS GROUP COMPANY

Test Report

on Tensile Strength of Unreinforced and Reinforced Plastics

Test method:

ASTM D 3039-95a

Report No.: 11LM101101

Page: 1 of 5

Date Issued: 22 Nov 2011

Our Job No.:	11LM101101	Your ref./W.O. No.:	
Details supplied by Client			
Contract No.	WSD-09(W)		
Project title:	Alum Tank Spray Fiber-Glass		
Project location:	Yau Kam Tau Water Treatment	Works	
Client:	WSD		and the second s
Contractor:	Pacific Products Ltd.		
Description of sample:	A Spray of Fiber-Glass Sample	Sheet (thickness 3-mm, 5-mm	& 7-mm)
			The state of the s
Laboratory test results			
Date received:	11 Oct 2011	Date tested:	22 Nov 2011
Condition received:	Dry	Compression machine no.:	ST-0142
Support span, L (mm):	-	Crosshead rate (mm/min):	5.00

Samp identificati			mensions (n	nm)	Maximum Load (KN)	Tensile Strength (MPa)	Remarks
Client	Lab	Length	Width	Thickness			
-	1	198	26.0	3.0	5.81	74	-
-	2	212	27.5	5.0	11.46	83	-
-	3	210	26.5	7.0	16.67	90	-
-	-	•	-	•	-	-	-
-	-	-	-	-	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	-

Average:

Standard Deviation:

7.7

83

Remarks:

1. Test results relate to sample as tested only.

Checked by:

Date:

22 Nov 2011

Approved by:

Date:

22 Nov 2011



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A CIGIS GROUP COMPANY

Test Report

on Flexural Strength of Unreinforced and Reinforced Plastics

Test method:

ASTM D 790-07

Report No.: 11LM101101

Page: 3 of 5

Date Issued: 22 Nov 2011 Our Job No .:

Details supplied by Client

Contract No.

WSD-09(W)

11LM101101

Project title:

Project location:

Alum Tank Spray Fiber-Glass Yau Kam Tau Water Treatment Works

Client:

WSD

Contractor:

Pacific Products Ltd.

Description of sample:

A Spray of Fiber-Glass Sample Sheet (thickness 5-mm)

Laboratory test results

Date received:

11 Oct 2011

Date tested:

Your ref./W.O. No.:

22 Nov 2011

Condition received: Support span, L (mm): Dry 160.0 Compression machine no.:

ST-0142

Crosshead rate (mm/min):

2.00

	Sample dentification no.		nensions (r	nm)	Maximum	Deflection at max. load	Flexural strength	Slope of tangent to	Modulus of elasticity
Client	Lab	Length	Width	Thickness	Load (N)	(mm)	(MPa)	load-deform curve, m	(GPa)
-	1	211.5	27.5	5.0	489.4	14.50	177	23.0	6.84
-	2	-	-	-	-	-	-	-	
-	3	- ,	-	-	-	-	-	-	-
-	4	-	•	-	Process account contract por con-	-		 	-
-	5			· ·	-	T - 1			

Remarks:

1. Test results relate to sample as tested only.

Checked by:

Date:

22 Nov 2011

Approved by:

Date:

22 Nov 2011



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A CIGIS GROUP COMPANY

Test Report

on Flexural Strength of Unreinforced and Reinforced Plastics

Test method:

ASTM D 790-07

Report No.: 11LM101101

Page: 4 of 5 Date Issued: 22 Nov 2011

Our Job No.:

11LM101101

Your ref./W.O. No.:

Details supplied by Client

Contract No.

WSD-09(W)

Project title:

Alum Tank Spray Fiber-Glass

Project location:

Yau Kam Tau Water Treatment Works

Client:

WSD

Contractor:

Pacific Products Ltd.

Description of sample:

A Spray of Fiber-Glass Sample Sheet (thickness 7-mm)

Laboratory test results

Date received:

11 Oct 2011

Date tested:

22 Nov 2011

Condition received:

Dry

Compression machine no.:

ST-0142

Support span, L (mm): 180.0

Crosshead rate (mm/min):

2.00

Samp identificat		Dimensions (mm)			Maximum Load (N) Deflection at max. load	Flexural strength	Slope of tangent to load-deform	Modulus of elasticity		
Client	Lab	Length	1 1	Width	Thickness	Load (IV)	(mm)	(MPa)	curve, m	(GPa)
-	1	210.0	i	27.3	7.0	847.2	16.50	176	45.2	7.03
-	2	-	•	-	-	-	-	-	_	
-	3			-		-	-	-	-	 -
	 4	_	•	_	_	_				
										•
-	5	-		-	-	-	-	-	-	-

Remarks:

1. Test results relate to sample as tested only.

Checked by:

Date:

22 Nov 2011

Approved by:

Date:

22 Nov 2011



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A CIGIS GROUP COMPANY

Test Report

on Compressive Strength of Unreinforced and Reinforced Plastics

Test method:

In house method

Report No.: 11LM101101

Page: 5 of 5

Date Issued: 22 Nov 2011

Our Job No.:

11LM101101

Your ref./W.O. No.:

Details supplied by Client

Contract No.

WSD-09(W)

Project title:

Alum Tank Spray Fiber-Glass

Project location:

Yau Kam Tau Water Treatment Works

Client:

WSD

Contractor:

Pacific Products Ltd.

Description of sample:

A Spray of Fiber-Glass Sample Sheet (thickness 3-mm, 5-mm & 7-mm)

Laboratory test results

Date received:

11 Oct 2011

Date tested:

22 Nov 2011

Condition received: Support span, L (mm): Dry

Compression machine no.:

CE-0052

Crosshead rate (kN/sec):

5.00

Sample identification no.		Di	mensions (n	nm)	Maximum Load (KN)	Compressive Strength	Density			
Client	Lab	Length	Width	Thickness	,	(MPa)	(kg/m ³)			
-	1	100	26.0	3.0	1000 385		1000 385	1000 385	385	1255
-	2	100	27.5	5.0	1000	364	1389			
-	3	100	26.5	7.0	1000	377	1380			
-	-		-		<u>.</u>	-	-			
					MAINTAIN MAINTAIN POST ALPENDE IN THE					
=	-	*		-	-	_	_			

Average:

375

Standard Deviation:

10.7

Remarks:

1. Test results relate to sample as tested only.

2. Test stopped at 1000kN, actual strength of specimens may higher than the reported value.

Checked by:

by:

Approved by:

Date:

22 Nov 2011

Date:

22 Nov 2011