

Test Report

Compression Test

Prepared for

Unique Fiberglass LLC

Document No. CT-TWR-18-50 Rev 0




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Prepared for**Unique Fiberglass LLC****By****CTRM Testing Laboratory Sdn Bhd**

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Classification:	For Unique Fiberglass and CTRM TL only

Client:	Unique Fiberglass LLC
Address:	Unique Fiberglass & Composites L.L.C. Ras Al Khaimah, U.A.E.
Date Sample Received:	27 th November 2018

	Authored By	Reviewed By	Authorized By
Signature			
Name	Mohd Faizal Mohd Fauzi	Mohd Azizi Mat Sah	Mohd Taufik Nordin
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Date	3/1/2019	3/1/2019	3.1.19

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Revision History

Date of Revision	Revision	Reason for change

1. Introduction

A series of tests have been conducted to determine the performance of the product under testing scope of Compression Test. This report is prepared for Unique Fiberglass LLC, which presents the methodology and results of the test.

2. Description of Test Item

Test	Quantity
Compression Test (ASTM D695) – LW	5
Compression Test (ASTM D695) – CW	5

3. Test Condition

Testing was carried out at $23\pm 3^{\circ}\text{C}$ and relative humidity of $50\pm 5\%$ room condition.

4. Preparation of Test Specimen

Panel received on 27th November 2018 were packed and sealed in packaging.

5. Testing Equipment

5.1. Universal Testing Machine

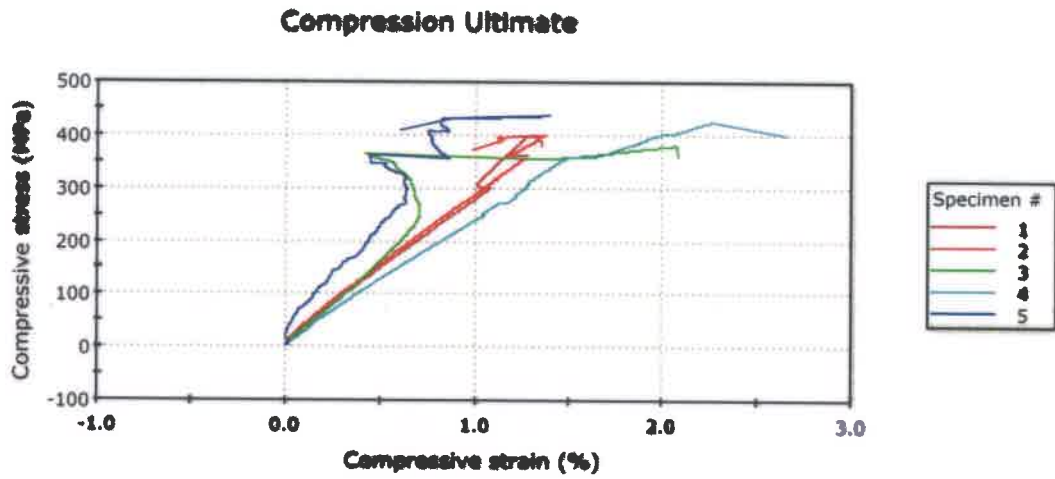
Machine brand : INSTRON
Model : 5582

6. Comment/Observation

No abnormalities found during the testing.

7. Appendix

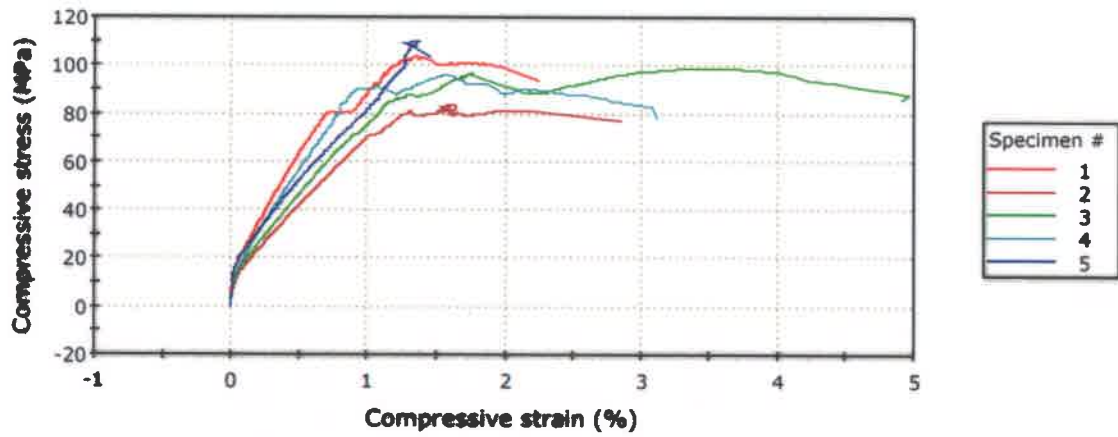
7.1. Compression - CW



	Width (mm)	Thickness (mm)	Comp. Load (kN)	Comp. Strength (MPa)	Modulus Young's (MPa)
1	12.760	6.820	34.832	400.263	34344.760
2	12.770	6.780	34.569	399.273	34147.211
3	12.710	6.780	32.733	379.851	31499.352
4	12.720	6.740	36.424	424.856	29792.014
5	12.760	6.820	38.090	437.702	47012.404
Mean	12.744	6.788	35.330	408.389	35359.148
SD.	0.03	0.03	2.02	22.88	6785.78

7.2. Compression - LW

Compression Ultimate



	Width (mm)	Thickness (mm)	Comp. Load (kN)	Comp. Strength (MPa)	Modulus Young's (MPa)
1	12.740	6.710	8.866	103.711	124491.194
2	12.810	6.800	7.291	83.703	116281.511
3	12.760	6.750	8.532	99.054	119420.324
4	12.780	6.750	8.260	95.757	133883.733
5	12.700	6.750	9.434	110.046	132828.236
Mean	12.758	6.752	8.477	98.454	125381.000
SD.	0.04	0.03	0.79	9.84	7856.21