

# **Test Report**

**Flexural Test** 

Prepared for

**Unique Fiberglass LLC** 

Document No. CT-TWR-18-51 Rev 0

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## Prepared for

## **Unique Fiberglass LLC**

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## **CTRM Testing Laboratory Sdn Bhd**

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Document Number:	CT-TWR-18-51 Rev 0		
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 <sup>th</sup> November 2018	

	Authored By	Reviewed By	Authorized By	
Signature	Tuel	Elim	7 ani	
Name	Mohd Paizal Mohd Fauzi	Mohd Azizi Mat Sah	Mohd Taufik Nordin	
Designation Technical Engineer Laboratory Section		Head of Technical Laboratory Section	Head of Laboratory	
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 Flexural 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	
Flexural Test (ASTM D790) – LW	5	
Flexural Test (ASTM D790) – CW	5	

#### 3. Test Condition

Testing was carried out at 23±3°C and relative humidity of 50±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

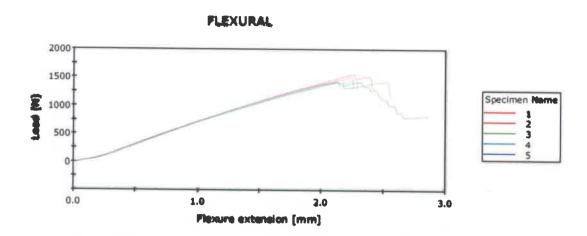
: 5582

## 6. Comment/Observation

No abnormalities found during the testing.

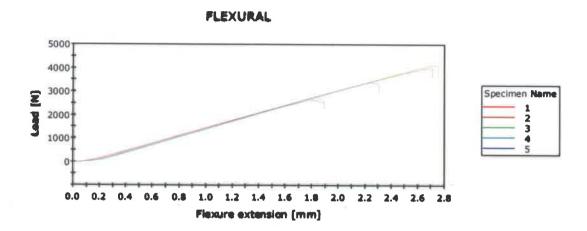
## 7. Appendix

## 7.1. Flexural - CW



	Thickness [mm]	Support span [mm]	Width [mm]	Meximum Load [N]	Plexural Stress
1	6.85	109.00	20.21	1561.47	269.218
2	6.83	109.00	20.16	1502.20	261.164
3	6.89	109.00	20.09	1427.18	244.668
4	6.84	109.00	20.12	1456.75	253.025
5	6.83	109.00	20.26	1437.62	248.704
Mean	6.85	109.00	20.17	1477.05	255.356
S.D.	0.02	0.00	0.07	55.26	9.87

## 7.2. Flexural - LW



	Thickness [mm]	Support span [mm]	Width [mm]	Maximum Load [N]	Flexural Stress
1	6.81	109.00	20.18	4013.37	701.151
2	6.82	109.00	20.17	2631.63	458.635
3	6.79	109.00	20.15	4132.98	727.389
4	6.83	109.00	19.92	2696.74	474,489
5	6.83	109.00	20.17	3400.76	590,944
Mean	6.82	109.00	20.12	3375.10	590.522
S.D.	0.02	0.00	0.11	706.29	124.33