



TEST REPORT ON FLEXURAL STRENGTH AFTER IMMERSION

Client	Smith Line Reinforced Composites FZ-LLC PO Box:6523 Ras Al Khaimah, UAE		
Project Name	N.G	Lab Report No.	WLRP20-3725/7
Sample Description	GRP	Sample No.	WSP20-3725
Source	Smith Line Reinforced Composites FZ-LLC	Date Received	29/12/2020
Test Method	ASTM D790-17	Date Tested	19/01/2021
Sampling Method	ASTM D543-20	Date Reported	19/01/2021
Temperature	23±2°C	Relative Humidity	50±5%
Appearance of specimen	Good	Tested By	SU

Test Result

Chemical Reagent: Acetic Acid (5%)

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Flexural Strength (Mpa)
1	24.0	10.6	2610	244
2	24.3	10.6	2970	274
Average				259
Minimum Requirement				150

Chemical Reagent: Hydrochloric Acid (5%)

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Flexural Strength (Mpa)
1	26.4	10.5	2800	242
2	24.7	10.6	2370	215
Average				229
Minimum Requirement				150

Chemical Reagent: Sulphuric Acid (3%)

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Flexural Strength (Mpa)
1	25.0	10.4	2650	247
2	23.4	11.0	2640	235
Average				241
Minimum Requirement				150

Chemical Reagent: Sodium Carbonate (10%)

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Flexural Strength (Mpa)
1	23.1	10.5	2240	222
2	23.2	10.6	2840	274
Average				248
Minimum Requirement				150





Chemical Reagent: Calcium Carbonate (10%)

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Flexural Strength (Mpa)
1	25.3	10.7	2590	225
2	24.6	10.7	2600	233
Average				229
Minimum Requirement				150

Chemical Reagent: Sodium Chloride (Sat.) (5%)

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Flexural Strength (Mpa)
1	25.1	10.6	2740	244
2	25.2	10.6	2510	224
Average				234
Minimum Requirement				150

Chemical Reagent: Sodium Sulphate (10%)

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Flexural Strength (Mpa)
1	24.5	10.6	2740	251
2	22.1	10.7	2480	247
Average				249
Minimum Requirement				150

Chemical Reagent: Sodium Hydroxide (10%)

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Flexural Strength (Mpa)
1	23.4	10.6	2510	240
2	25.1	9.6	2170	236
Average				238
Minimum Requirement				150

Chemical Reagent: Resistance to oil and grease

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Flexural Strength (Mpa)
1	25.3	10.7	2500	218
2	25.6	10.7	3000	258
Average				238
Minimum Requirement				150

Remarks: The above test was witnessed by Smith Line and Etisalat representatives.

1. Signed for M/s. Smith Line Reinforced Composites FZ-LLC

2. Signed for M/s. Etisalat, U.A.E

Signed for and on behalf of Wimpey Laboratories

S. Sarath Kumar
Senior Technician

Test results relate only to the samples tested

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