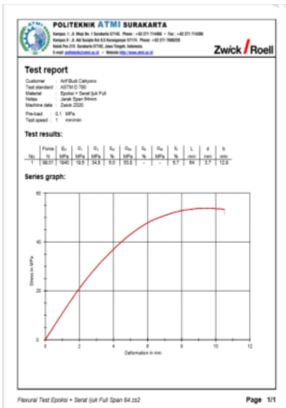
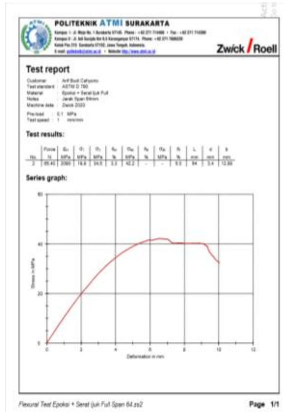
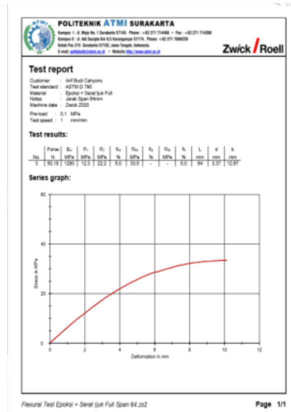
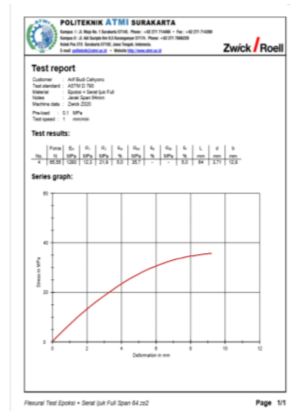
Lampiran Grafik Pengujian Bending

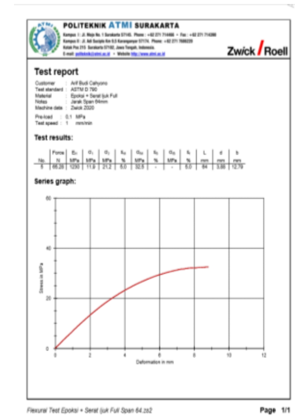
r_h 0,0 L/d = 16


POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

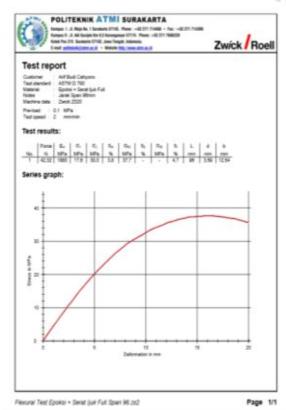

POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

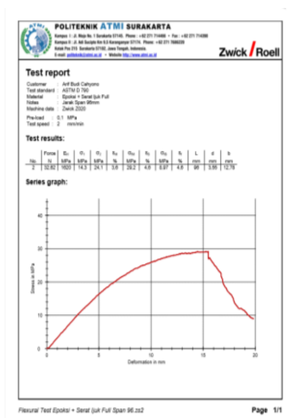

POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

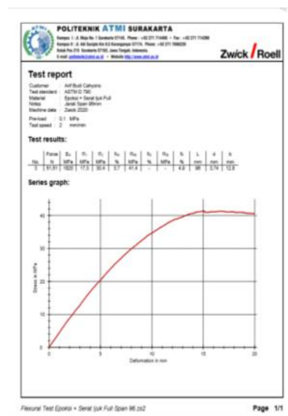

POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

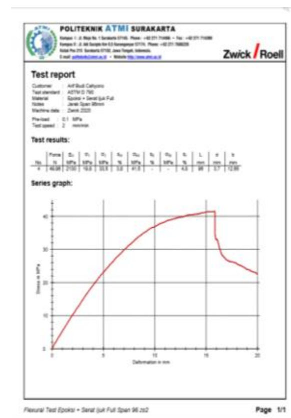

POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

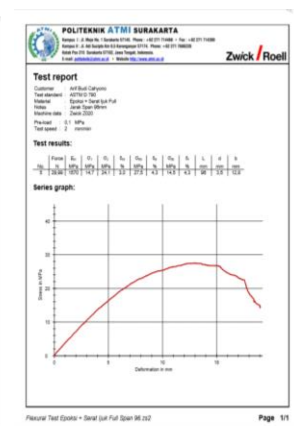
r_h 0,0 L/d = 24


POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

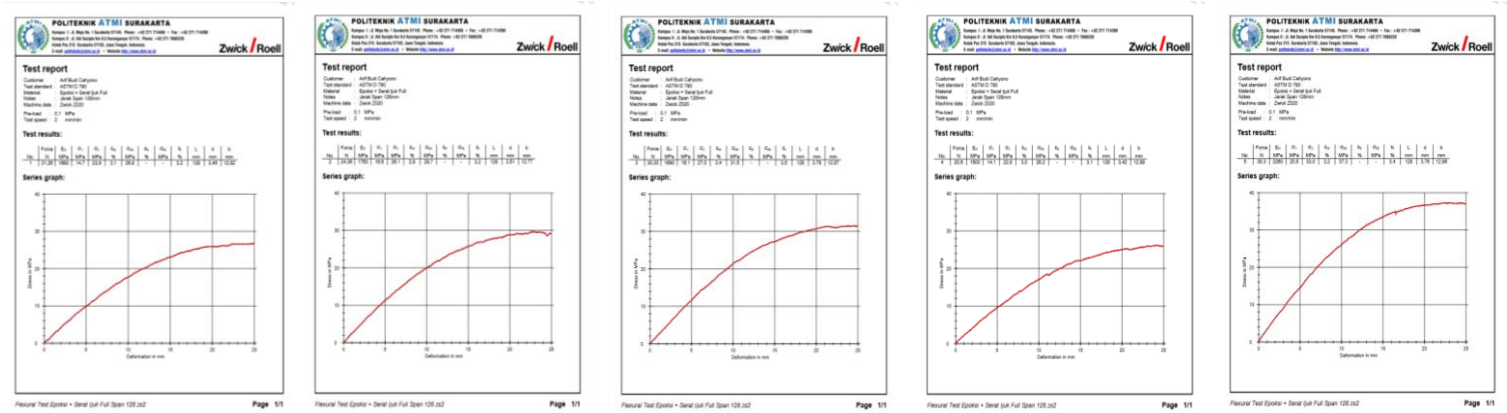

POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1


POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

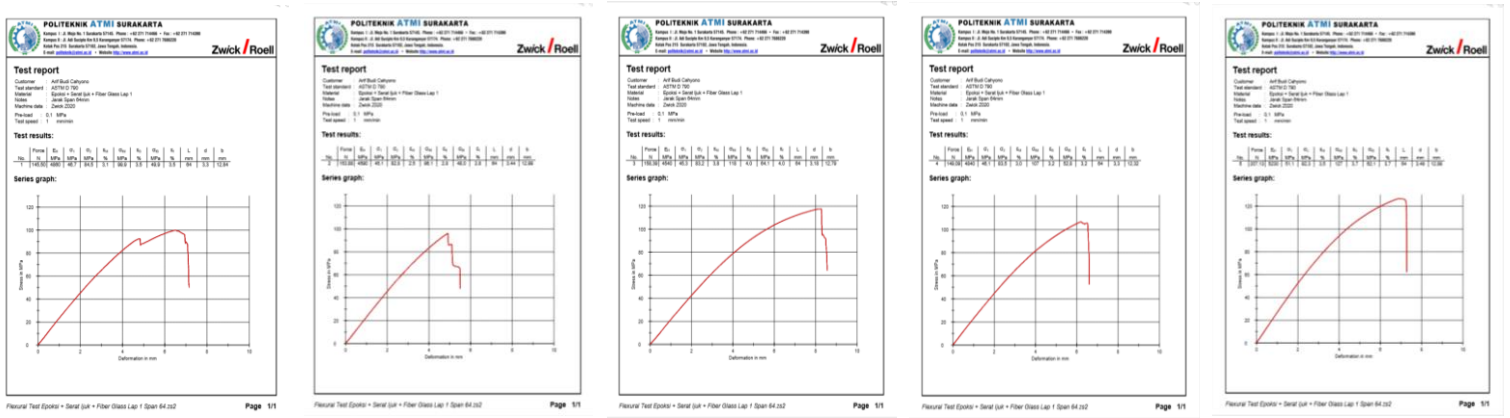

POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1


POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

rh 0,0 L/d = 32


POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

rh 0,1 L/d = 16



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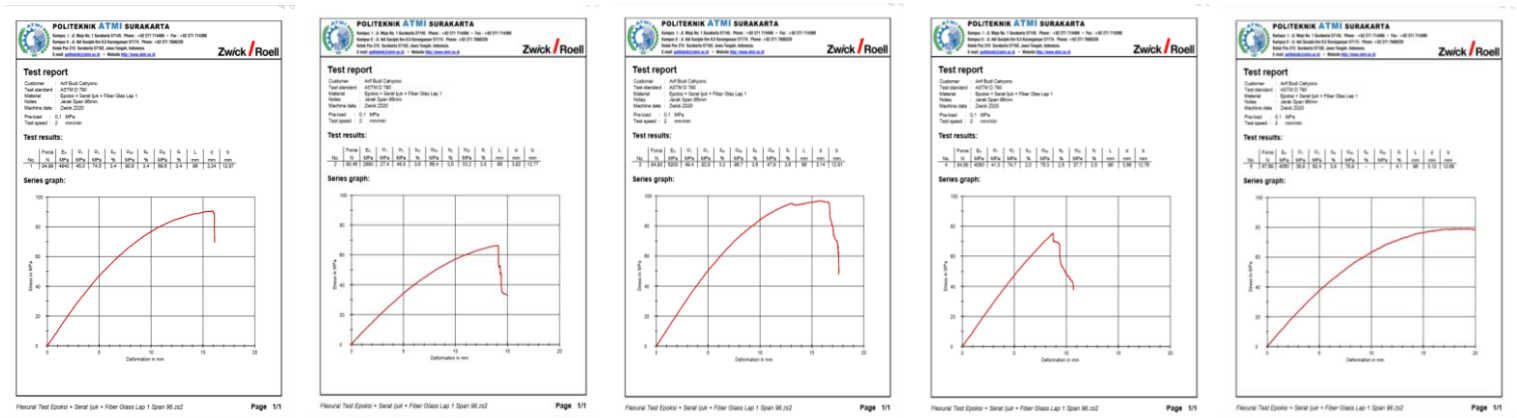

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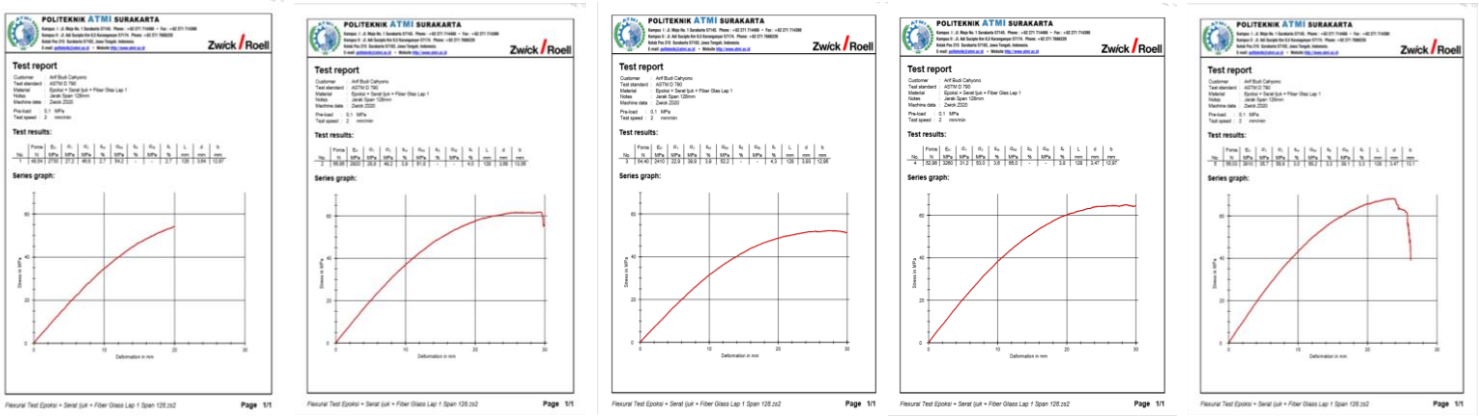
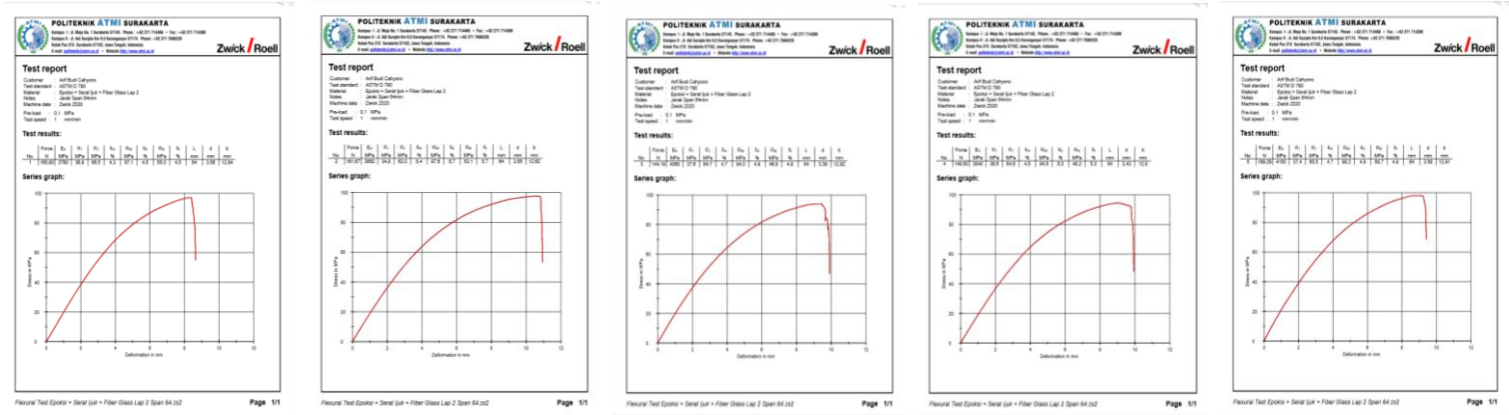
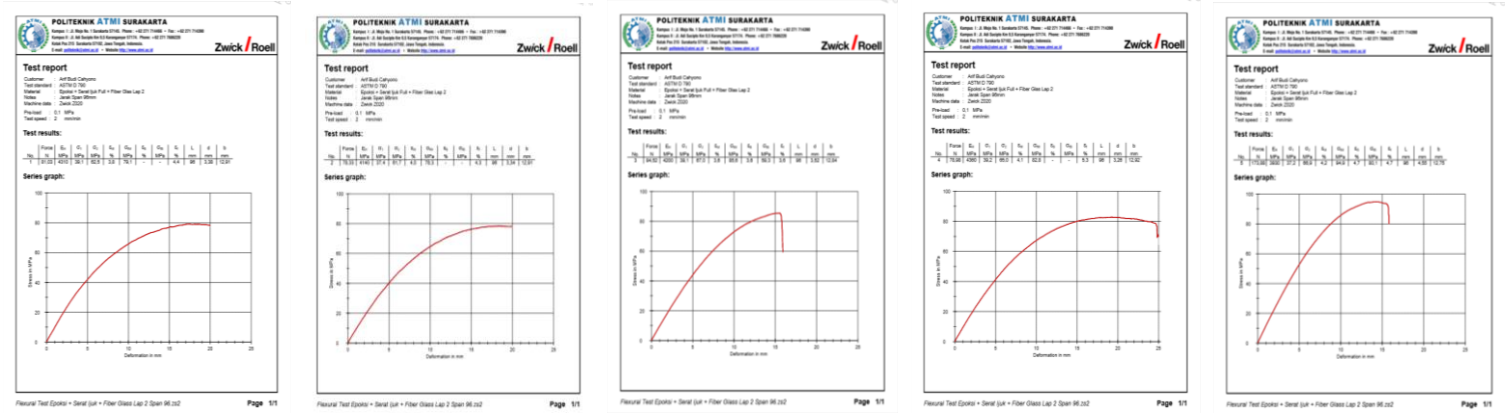

POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

rh 0,2 L/d = 16



rh 0,2 L/d = 24



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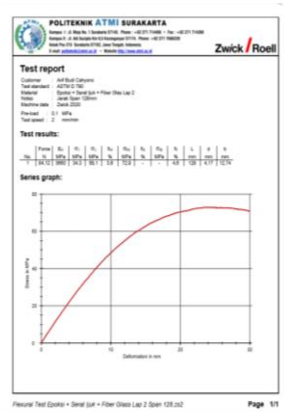
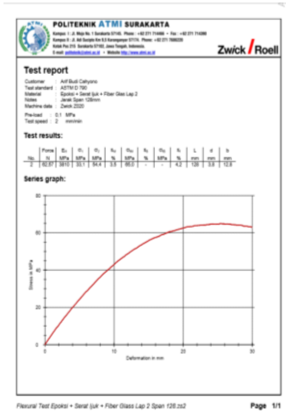
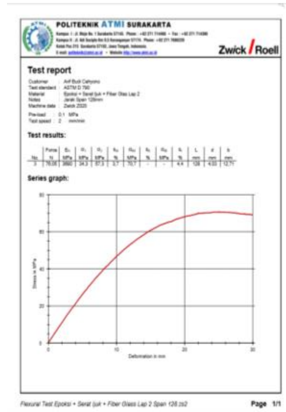
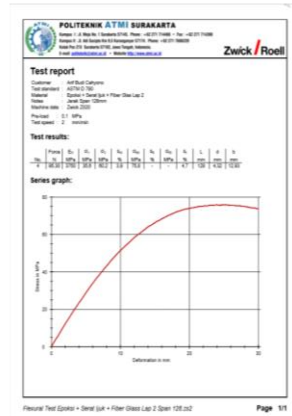
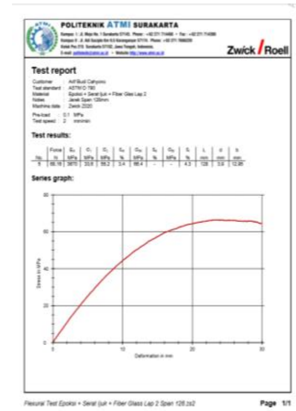

POLITEKNIK ATMI SURAKARTA
Zwick Roell
Test report
Test results:
Series graph:
Page 1/1

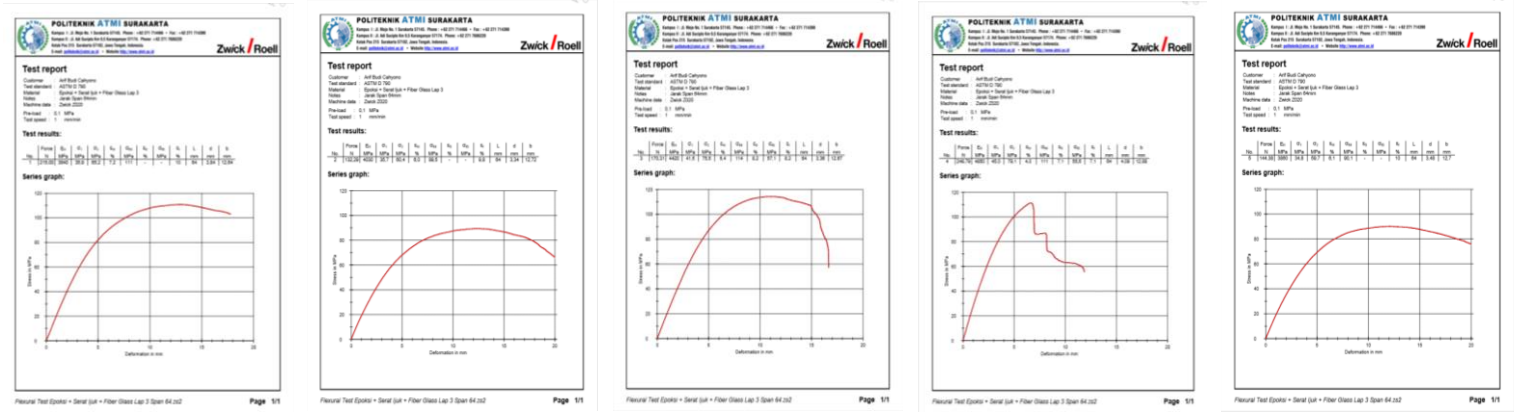

POLITEKNIK ATMI SURAKARTA
Zwick Roell
Test report
Test results:
Series graph:
Page 1/1


POLITEKNIK ATMI SURAKARTA
Zwick Roell
Test report
Test results:
Series graph:
Page 1/1

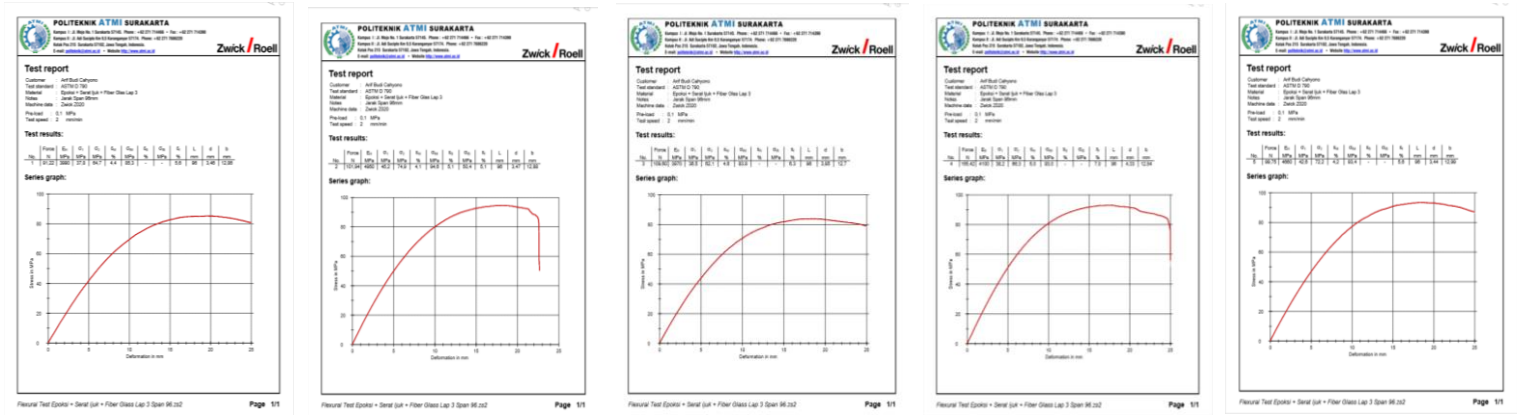

POLITEKNIK ATMI SURAKARTA
Zwick Roell
Test report
Test results:
Series graph:
Page 1/1


POLITEKNIK ATMI SURAKARTA
Zwick Roell
Test report
Test results:
Series graph:
Page 1/1

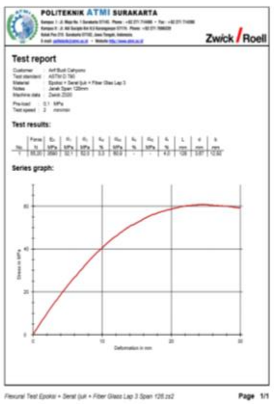
rh 0,3 L/d = 16



rh 0,3 L/d = 24



r_h 0,3 L/d = 32

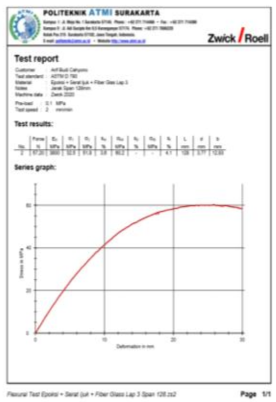

POLITEKNIK ATMI SURAKARTA

Test report

Test results:

Series graph:

Page 1/1

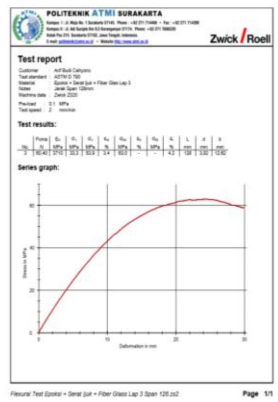

POLITEKNIK ATMI SURAKARTA

Test report

Test results:

Series graph:

Page 1/1

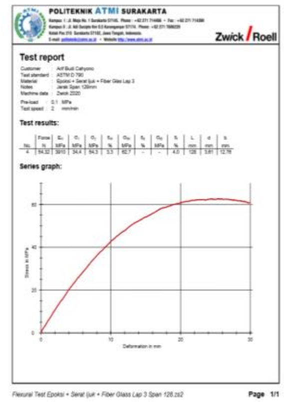

POLITEKNIK ATMI SURAKARTA

Test report

Test results:

Series graph:

Page 1/1

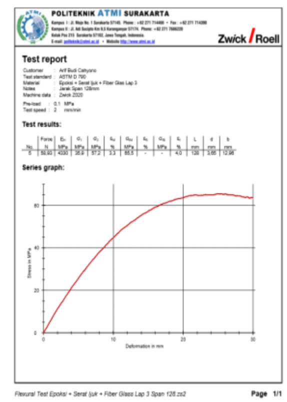

POLITEKNIK ATMI SURAKARTA

Test report

Test results:

Series graph:

Page 1/1


POLITEKNIK ATMI SURAKARTA

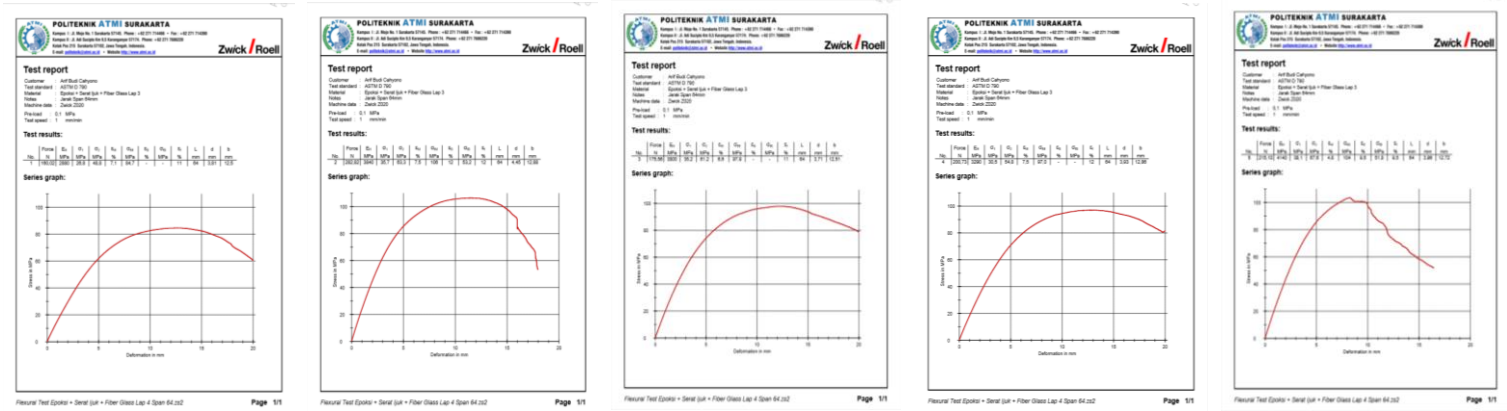
Test report

Test results:

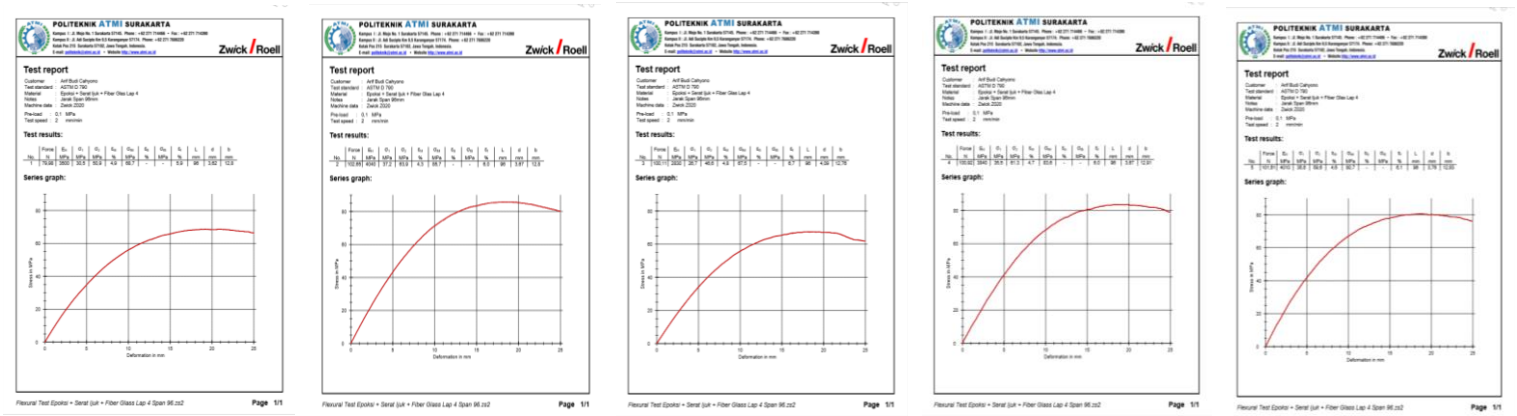
Series graph:

Page 1/1

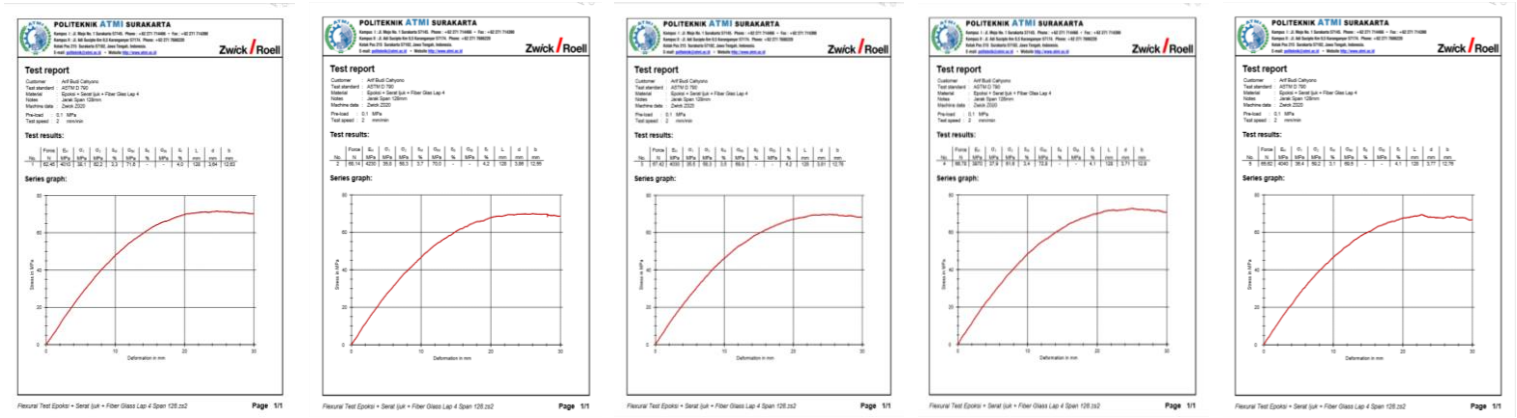
rh 0,4 L/d = 16



rh 0,4 L/d = 24



r_h 0,4 L/d = 32


POLITEKNIK ATMI SURAKARTA
Zwick / Roell
Test report
Test results:
Series graph:
Page 1/1

Tabel Data Hasil Pengujian *Bending* Komposit *Hybrid* Serat Ijuk Acak/Gelas Searah Bermatrik Epoksi

No Spes	Jenis Komposit	L (mm)	d (mm)	b (mm)	Defleksi (mm)	Beban (N)	m (N/mm)	Teg Bending (MPa)	Regangan (mm/mm)	Modulus Elastisitas (GPa)
1	100% ijuk	64	3.7	12.9	10.51675676	89.2	12.5	27.185	0.126	0.52
2	100% ijuk	64	3.4	12.88	10.03921569	112	15	31.31	0.096	0.551
3	100% ijuk	64	3.37	12.67	10.12858556	104.2	13.3	33.066	0.096	0.588
4	100% ijuk	64	3.71	12.8	9.200359389	98.5	12.5	29.783	0.104	0.516
5	100% ijuk	64	3.88	12.79	8.797250859	98.1	11.6	32.312	0.107	0.543
Nilai rata-rata								30.731	0.106	0.544
SD								2.332	0.012	0.029
Max								33.066	0.126	0.588
Min								27.185	0.096	0.516
1	Hybrid 90:10	64	4.15	12.65	13.3	122.6	12.5	54.023	0.081	0.906
3	Hybrid 90:10	64	4.2	12.8	16.8	128.7	10	54.719	0.103	0.691
4	Hybrid 90:10	64	5.1	12.75	9.1	191.6	25	55.465	0.068	0.969
5	Hybrid 90:10	64	5.1	12.5	10.25	175.3	20	51.761	0.077	0.79
Nilai rata-rata								53.992	0.082	0.839
SD								1.6	0.015	0.123
Max								55.465	0.103	0.969
Min								51.761	0.068	0.691
1	Hybrid 80:20	64	4.25	12.8	16.1	201.2	16.6	83.543	0.1	1.107
2	Hybrid 80:20	64	4.05	12.5	11.5	148.2	18	69.39	0.068	1.421
4	Hybrid 80:20	64	4.15	12.7	14.4	185.9	17.5	81.593	0.088	1.263
5	Hybrid 80:20	64	4.3	12.65	13.8	230	23.3	94.4	0.087	1.518
Nilai rata-rata								82.232	0.086	1.327
SD								10.248	0.013	0.18
Max								94.4	0.1	1.518
Min								69.39	0.068	1.107

1	Hybrid 70:30	64	4.3	12.45	8.75	208	30	86.742	0.055	1.986
3	Hybrid 70:30	64	4.7	12.45	13.1	284.4	35	99.274	0.09	1.775
4	Hybrid 70:30	64	4.7	12.55	9.25	301.8	40	104.508	0.064	2.012
5	Hybrid 70:30	64	4.8	12.6	14.5	244.6	25	80.886	0.102	1.176
Nilai rata-rata								92.853	0.078	1.737
SD								10.918	0.022	0.389
Max								104.508	0.102	2.012
Min								80.886	0.055	1.176
1	Hybrid 60:40	64	5	13	11.75	397.4	50	117.386	0.086	2.016
3	Hybrid 60:40	64	4.7	12.2	13.25	306.4	35	109.145	0.091	1.811
4	Hybrid 60:40	64	4.9	13.7	11.6	356.9	44	104.161	0.083	1.789
5	Hybrid 60:40	64	5	13.8	12.5	470.7	60	130.977	0.092	2.28
Nilai rata-rata								115.417	0.088	1.974
SD								11.719	0.004	0.228
Max								130.977	0.092	2.28
Min								104.161	0.083	1.789