

LAMPIRAN

LAMPIRAN A

Tabel 1. Panjang serat dombos

Panjang Serat (mm)	Jumlah Serat	Panjang serat x Jumlah serat (mm)
110	6	660
115	10	1150
120	10	1200
130	10	1300
135	15	2025
140	10	1400
145	10	1450
155	10	1550
165	10	1650
175	5	875
180	2	360
190	2	380
Σ	100	15,650

Tabel 2. Kekuatan tarik dan mulur serat dombos

<i>Breaking Strength</i> (Kp)	<i>Elongation data</i> (%)	<i>Elongation at break</i> (%)	<i>Berat Serat Perbundel</i> (mg)	<i>Tenacity</i> (g/tex)
4.4	20.0	10.70	6.715	11.04
4.0	18.5	9.89	4.775	16.85
3.0	15.5	8.29	3.850	13.13
5.1	27.0	14.44	7.800	11.02
4.45	26.0	13.91	6.535	11.47
4.1	23.5	12.57	5.383	12.83
3.9	20.0	10.70	4.765	13.79
5.0	28.5	15.24	6.630	12.71
4.8	17.5	9.36	6.705	12.06
5.0	27.0	14.44	6.900	12.12
Rata - rata		11.95	-	12.70

Tabel 3. *Moisture regain* serat dombos

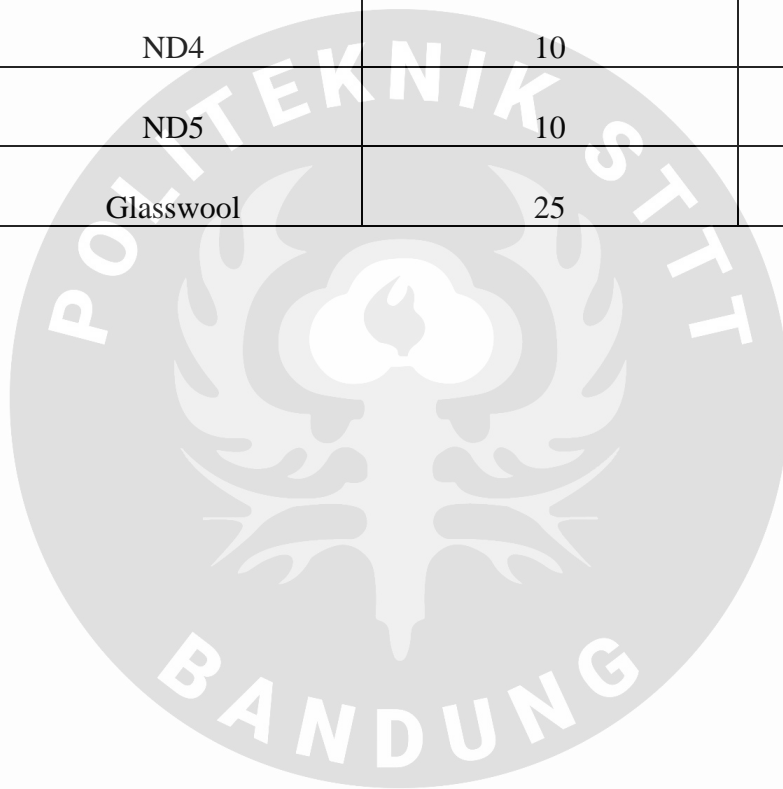
Berat Basah (mg)	Berat Kering (mg)	MR (%)
3000	2573	16.6
3000	2638	13.7
3000	2636	13.8
3000	2650	13.2
3000	2605	15.1
Rata-rata		14.48

Table 4 Pengujian kekuatan Tarik dan mulur serat poliester

No.	Kekuatan (gram)	Elongation (cm)	Elongation (%)
1	15.25	1.2	60
2	17.00	0.9	45
3	14.50	1.0	50
4	13.50	0.8	40
5	18.25	1.1	55
6	14.25	0.8	40
7	16.00	0.8	40
8	15.75	0.6	30
9	17.50	1.1	55
10	16.00	1.1	55
11	15.75	1.2	60
12	15.75	0.8	40
13	14.25	1.1	55
14	14.75	0.8	40
15	15.25	1.4	70
16	15.50	1.0	50
17	17.25	0.7	35
18	13.75	1.4	70
19	14.50	1.1	55
20	15.75	1.2	60

Tabel 5 Hasil Pengujian ketebalan dan densitas

No	Jenis Material	Tebal (mm)	Densitas (kg/cm ³)
1	ND1	3	5.7
2	ND2	4	7.62
3	ND3	8	8.3
4	ND4	10	14
5	ND5	10	9
6	Glasswool	25	25





B.2

K ND1



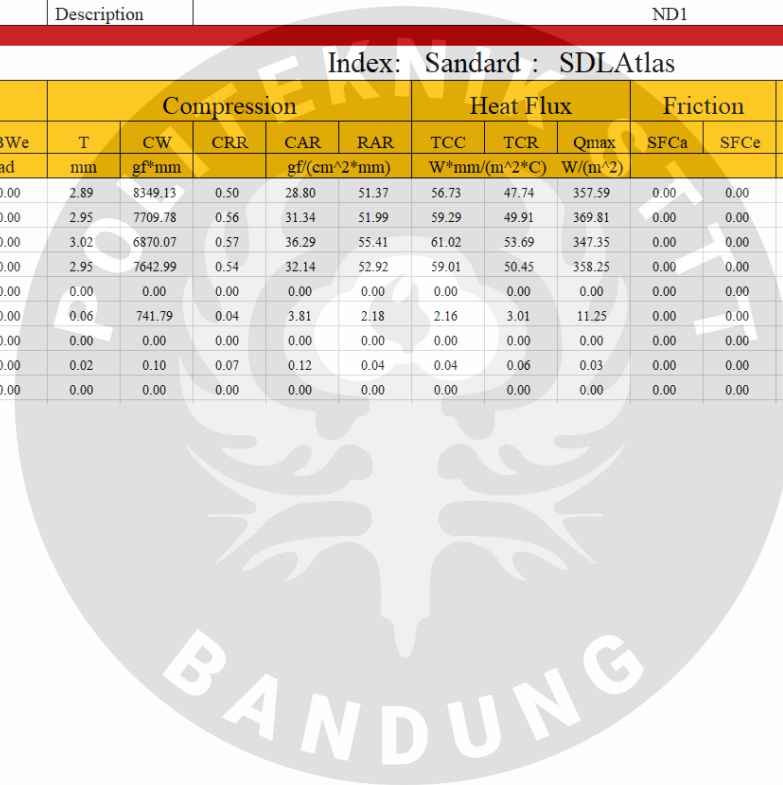
Fabric Touch Tester

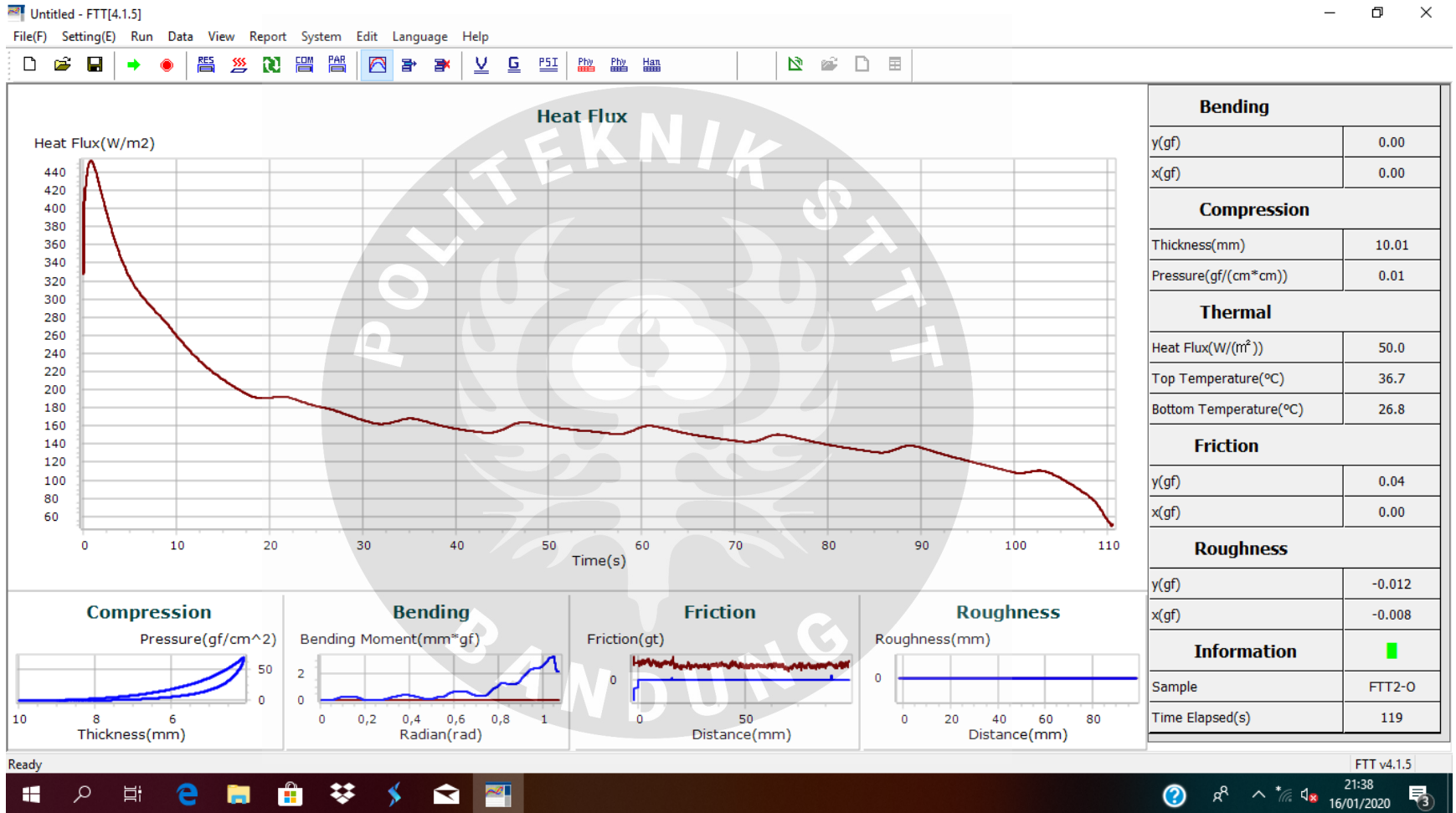


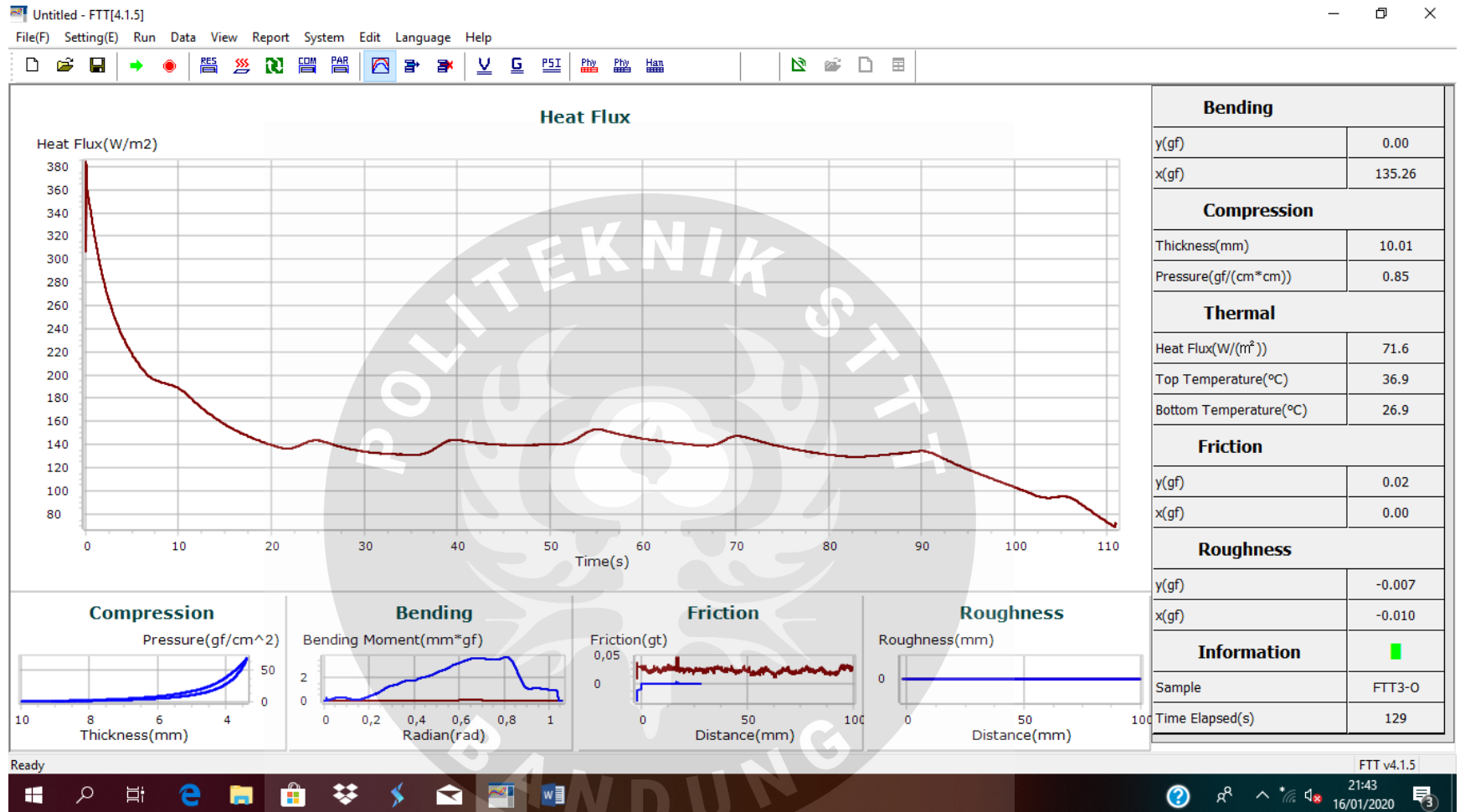
Company	SDLATLAS	Sample	FTT	Temperature	22
Operator	QC	Ref No.	SN : xxxxxxxx	Relative Humidity	65%
Date	2014	Description	ND1		

Index: Standard : SDLAtlas

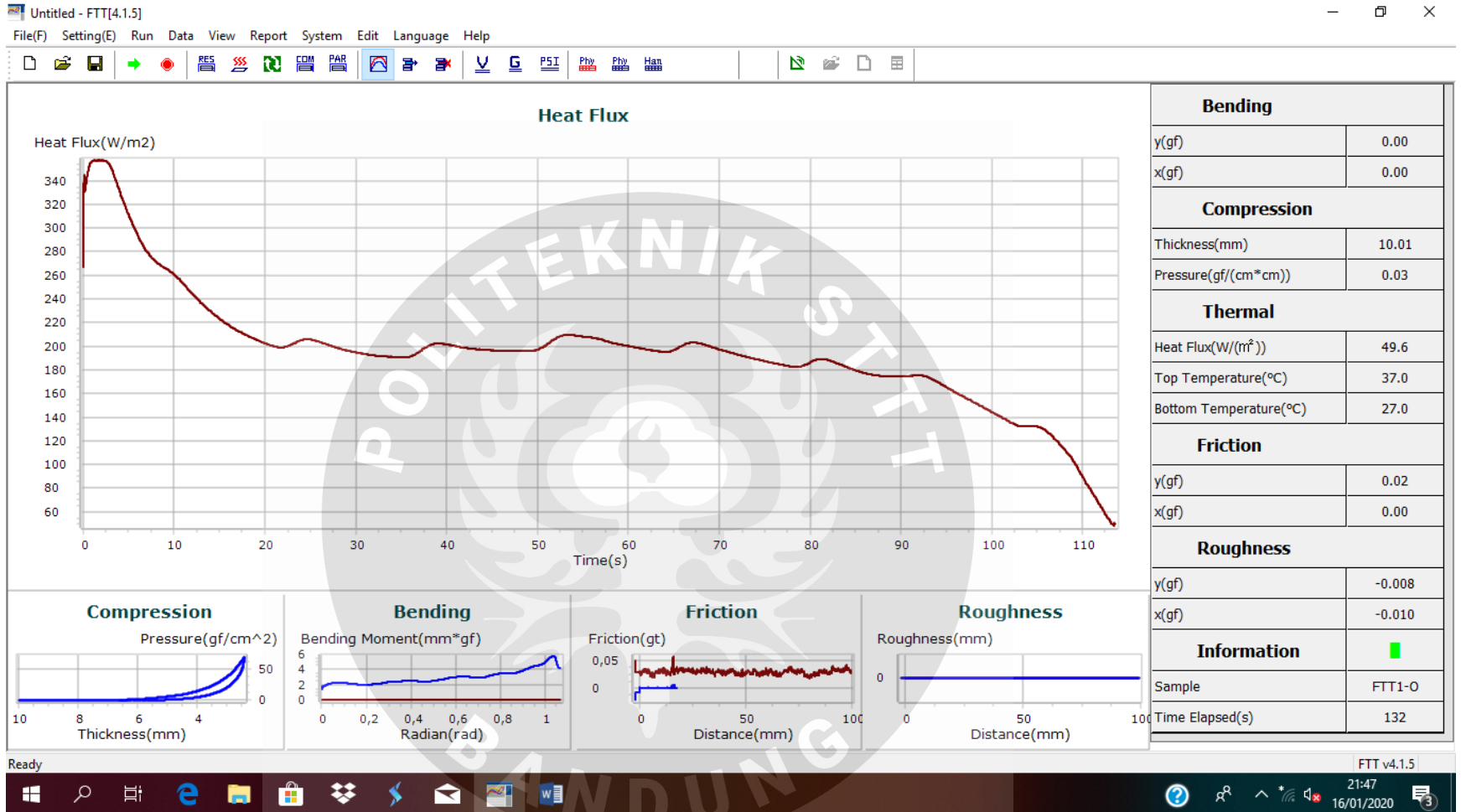
Sample	Bending				Compression					Heat Flux			Friction		Roughness				Primary Sensory Indices			
	BARa	BARe	BWa	BWe	T	CW	CRR	CAR	RAR	TCC	TCR	Qmax	SFCa	SFCe	SRAa	SRAe	SRWa	SRWe	Smoothness	Softness	Warmness	Total
	gf*mm/rad		gf*mm*rad		mm	gf*mm	gf/(cm ² *mm)			W*mm/(m ² *C)	W/(m ²)			um		mm						
FTT1-O	0.00	0.00	0.00	0.00	2.89	8349.13	0.50	28.80	51.37	56.73	47.74	357.59	0.00	0.00	0.00	0.00	0.00	0.00	0.72	1.90	1.31	1.31
FTT2-O	0.00	0.00	0.00	0.00	2.95	7709.78	0.56	31.34	51.99	59.29	49.91	369.81	0.00	0.00	0.00	0.00	0.00	0.00	0.53	1.85	1.29	1.19
FTT3-O	0.00	0.00	0.00	0.00	3.02	6870.07	0.57	36.29	55.41	61.02	53.69	347.35	0.00	0.00	0.00	0.00	0.00	0.00	0.28	1.78	1.27	1.02
Mean Outer	0.00	0.00	0.00	0.00	2.95	7642.99	0.54	32.14	52.92	59.01	50.45	358.25	0.00	0.00	0.00	0.00	0.00	0.00	0.51	1.84	1.29	1.17
Mean Inner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std.Outer	0.00	0.00	0.00	0.00	0.06	741.79	0.04	3.81	2.18	2.16	3.01	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.06	0.02	0.14
Std.Inner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV Outer	0.00	0.00	0.00	0.00	0.02	0.10	0.07	0.12	0.04	0.04	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.03	0.01	0.12
CV Inner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

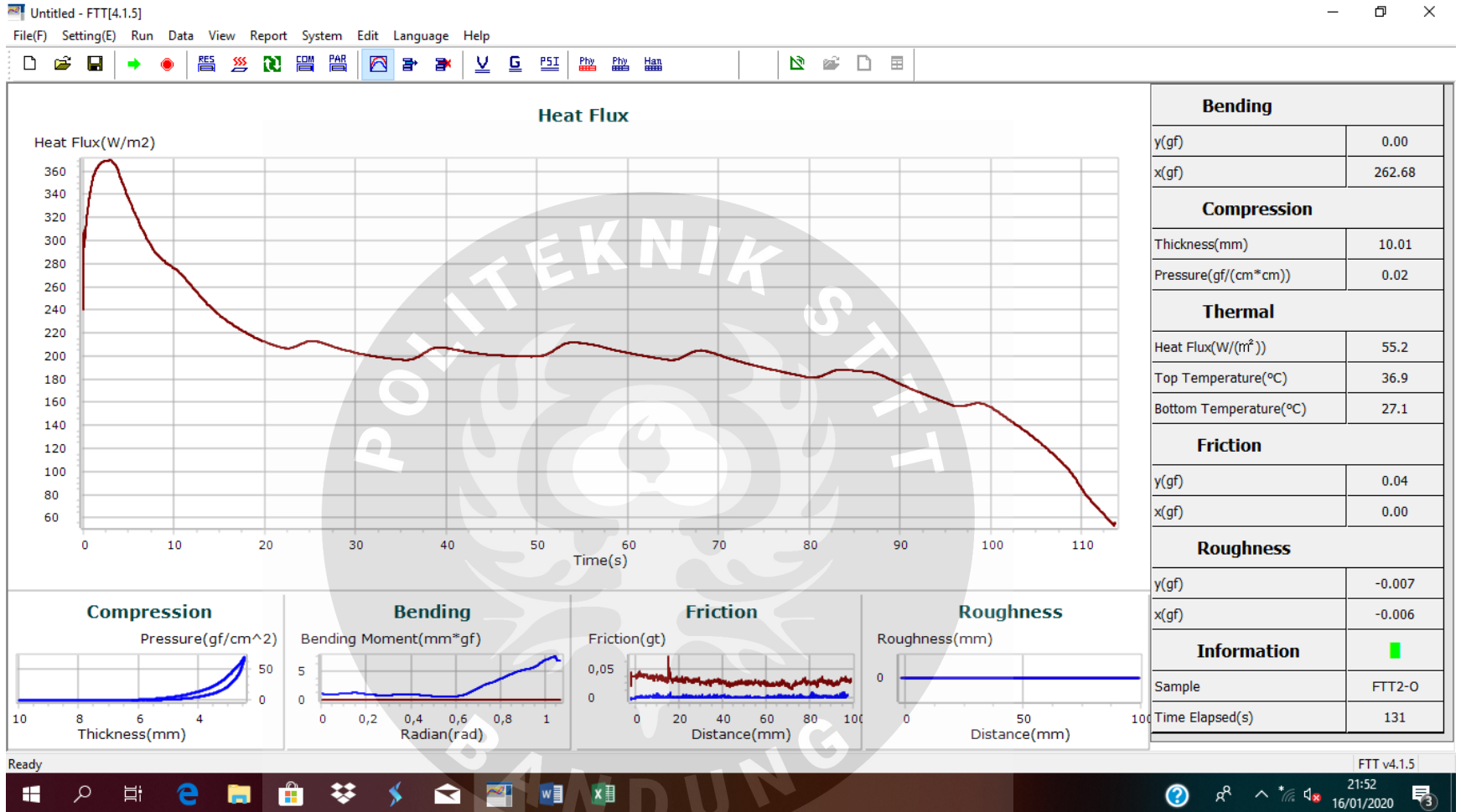


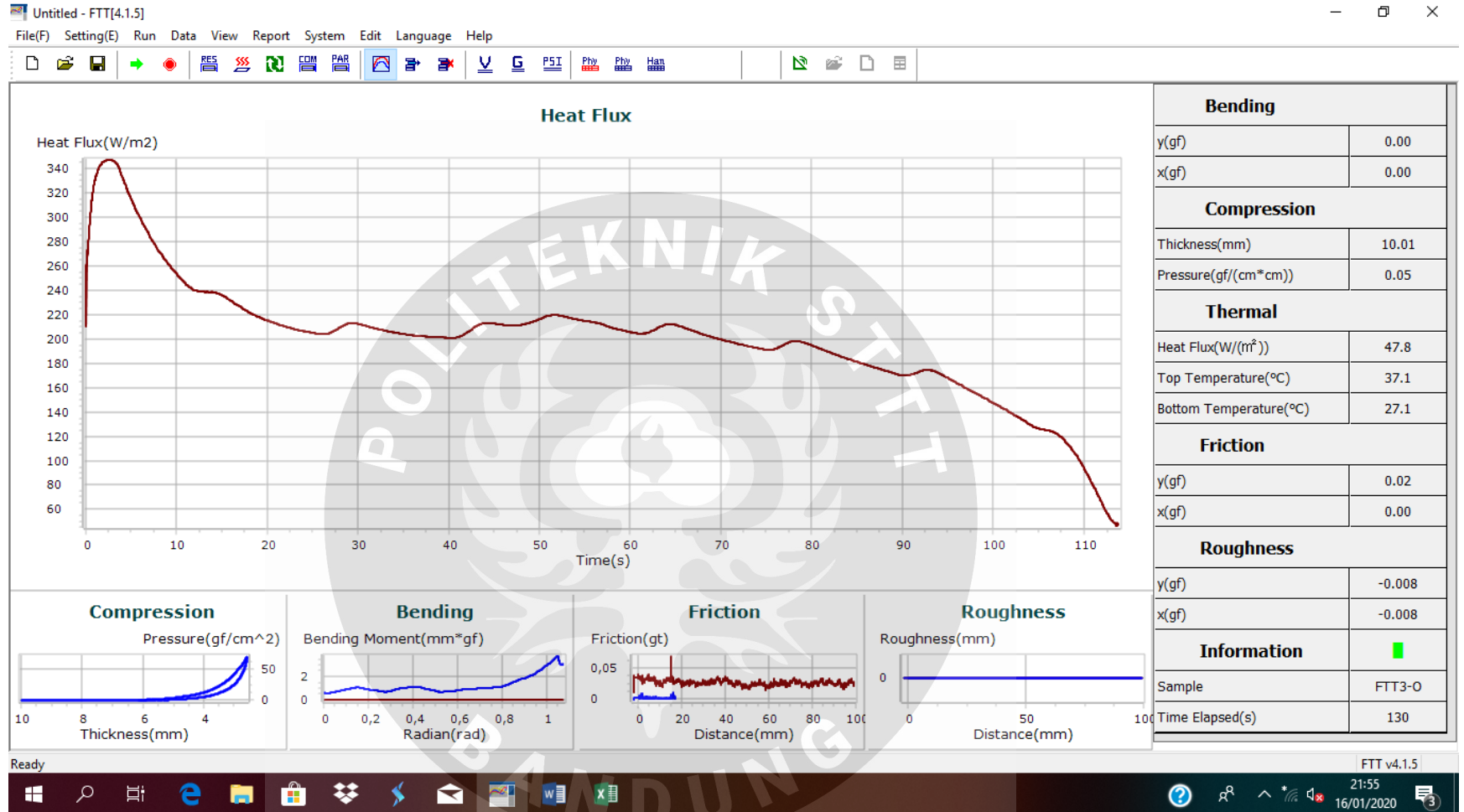




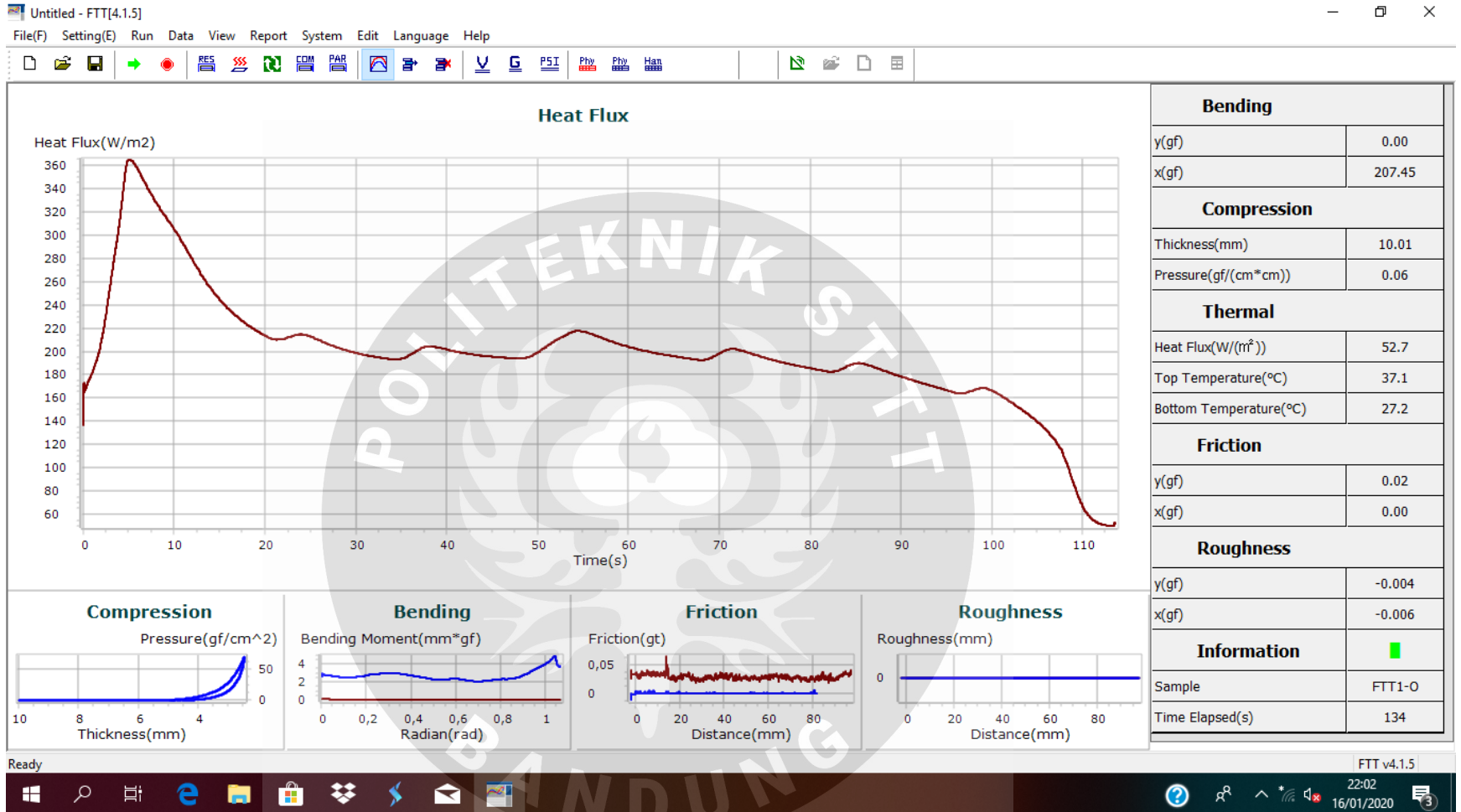
ND1

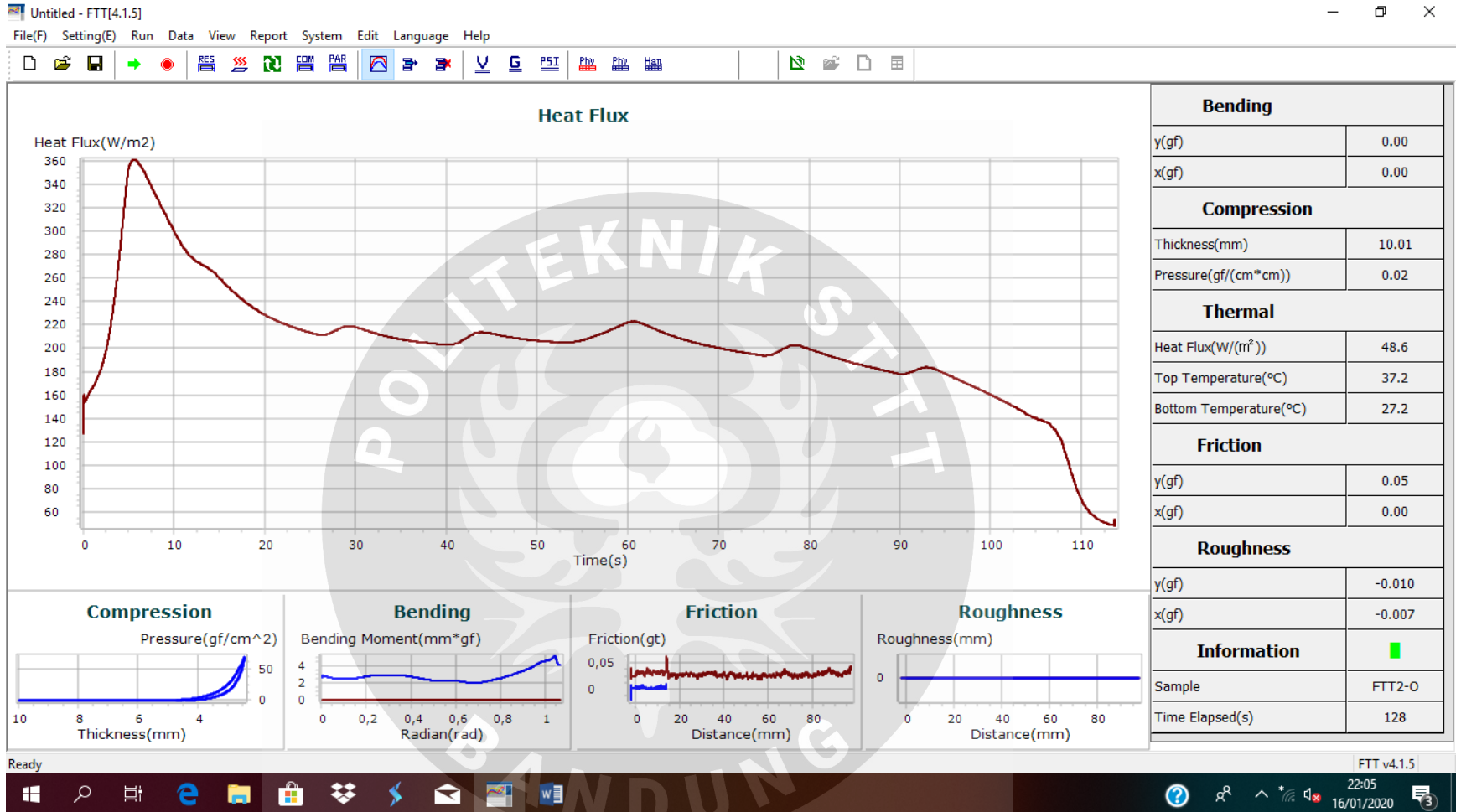


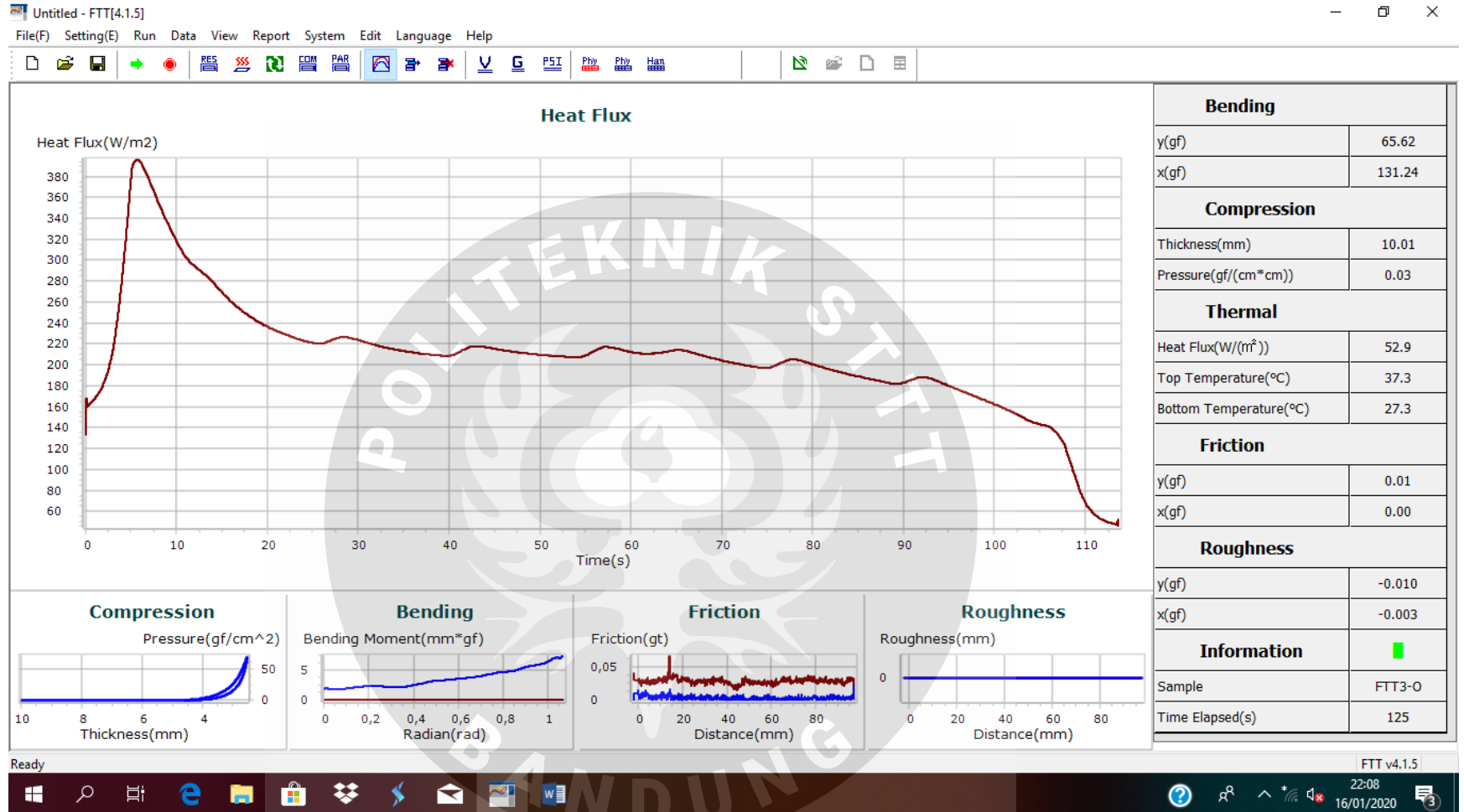




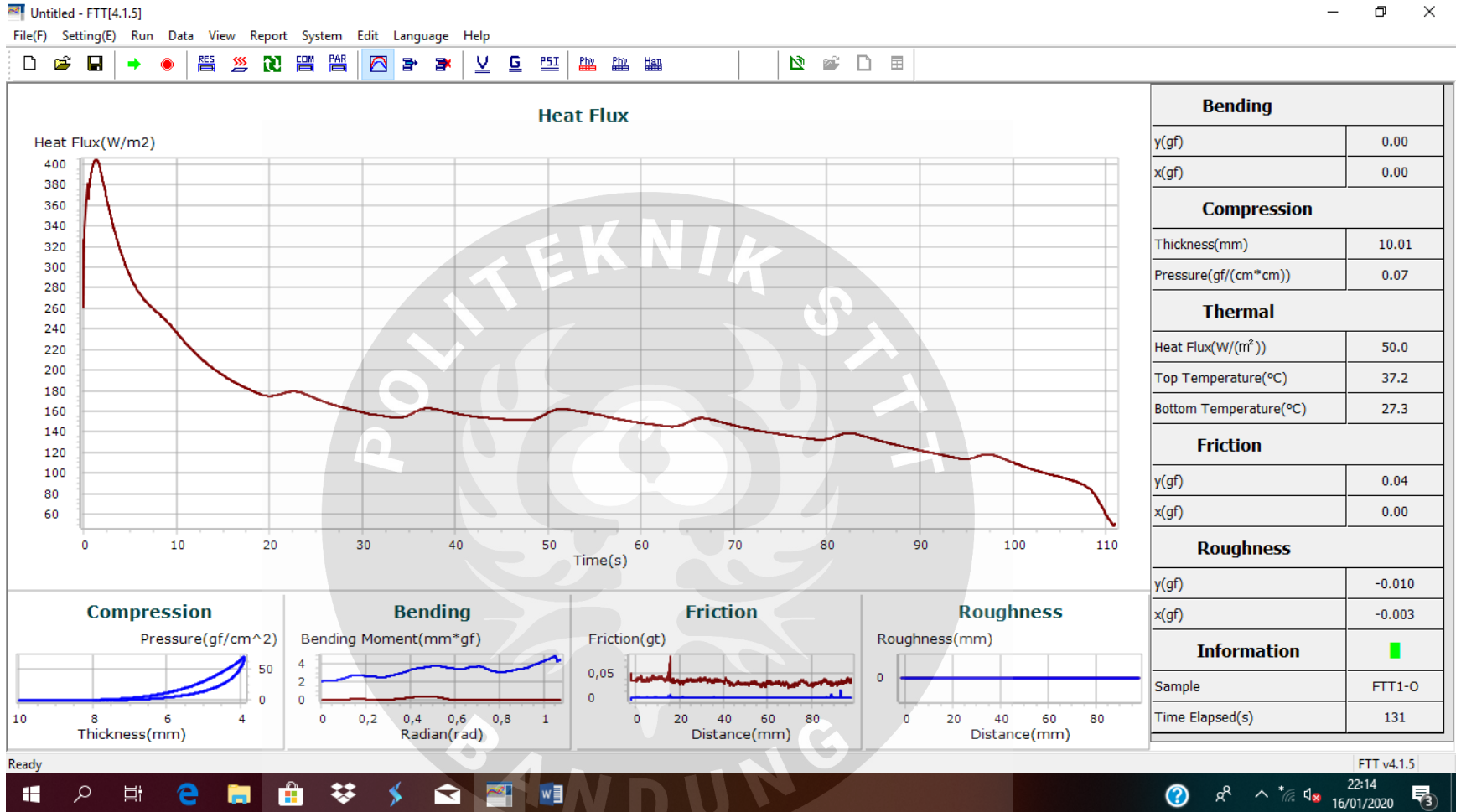
ND2

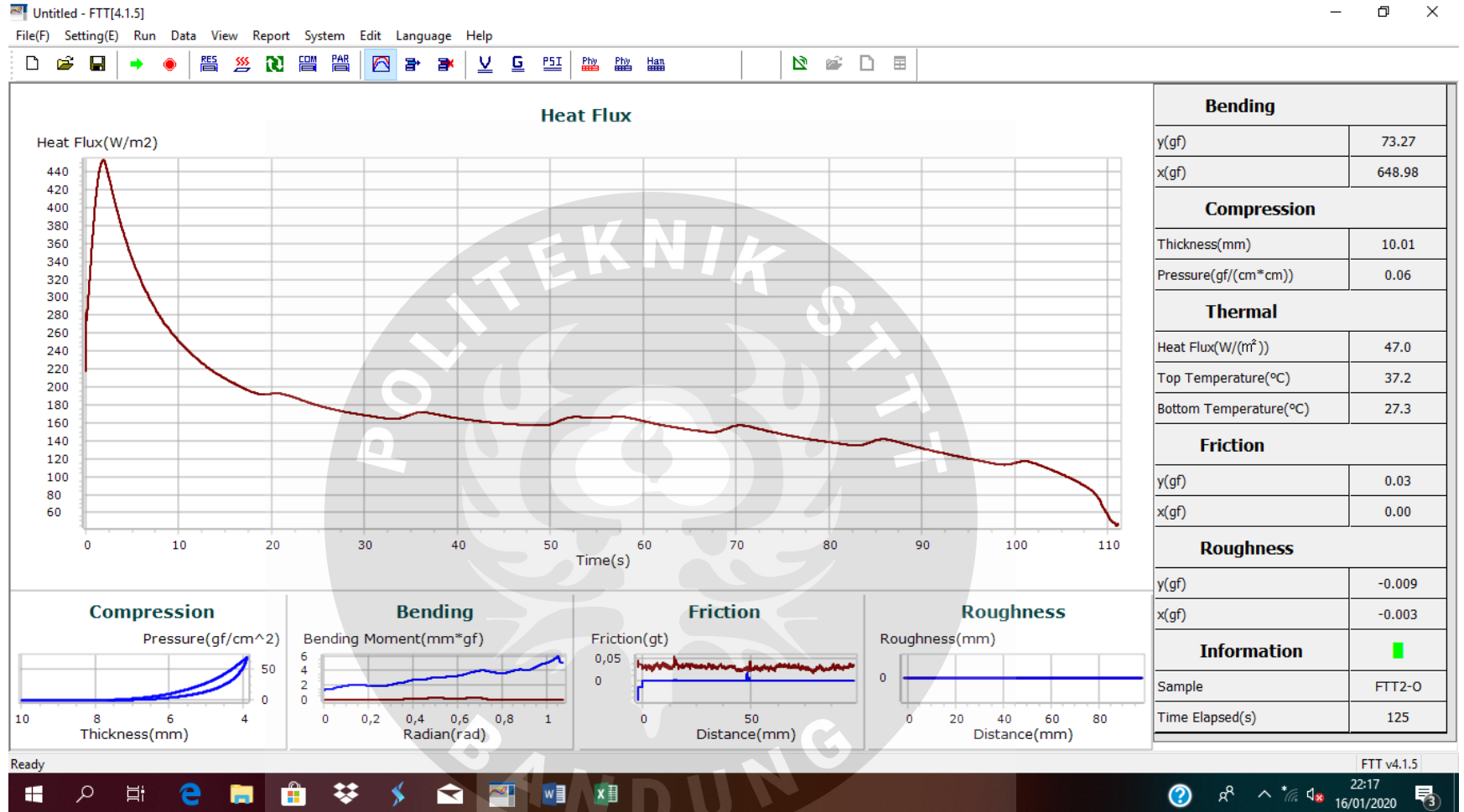


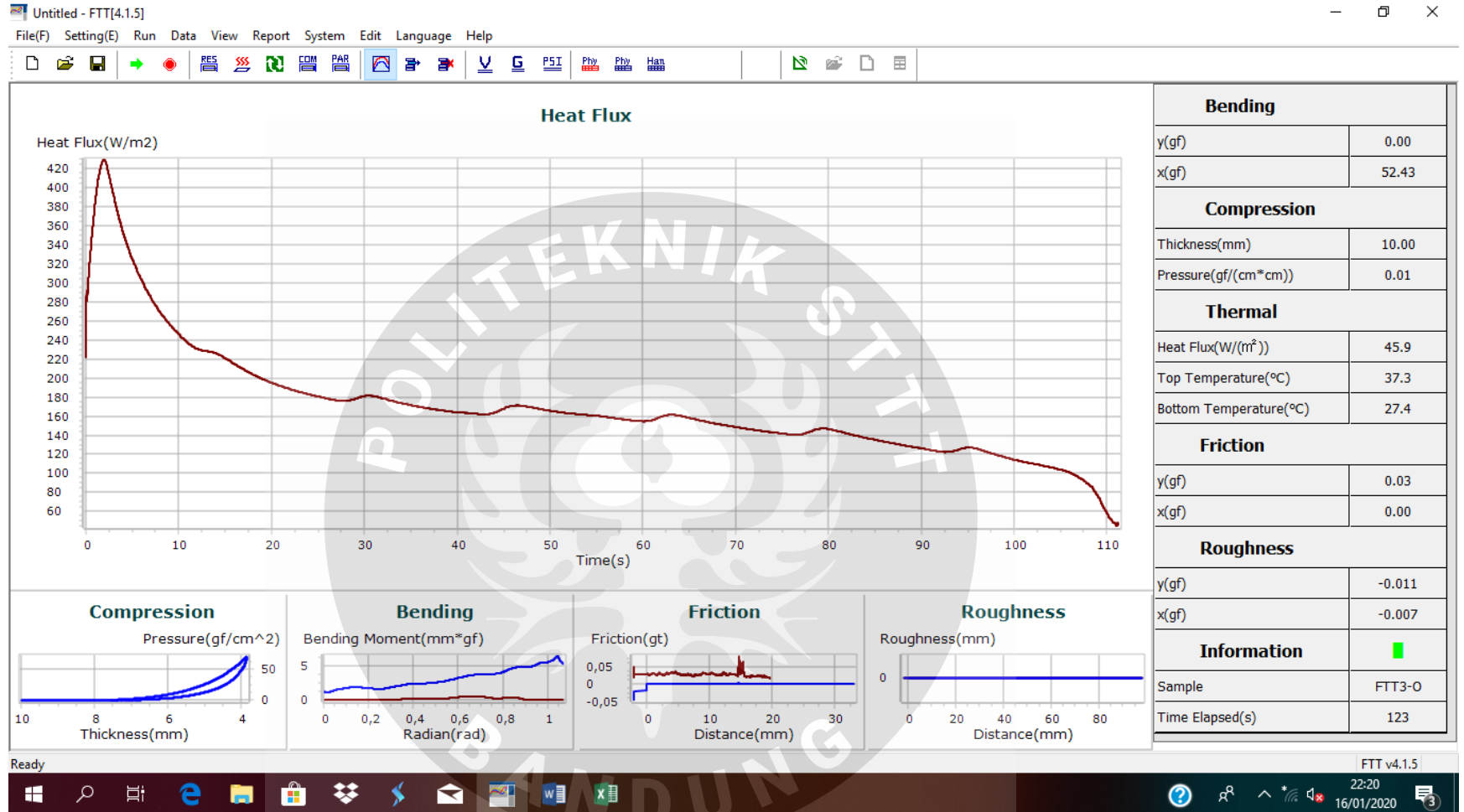




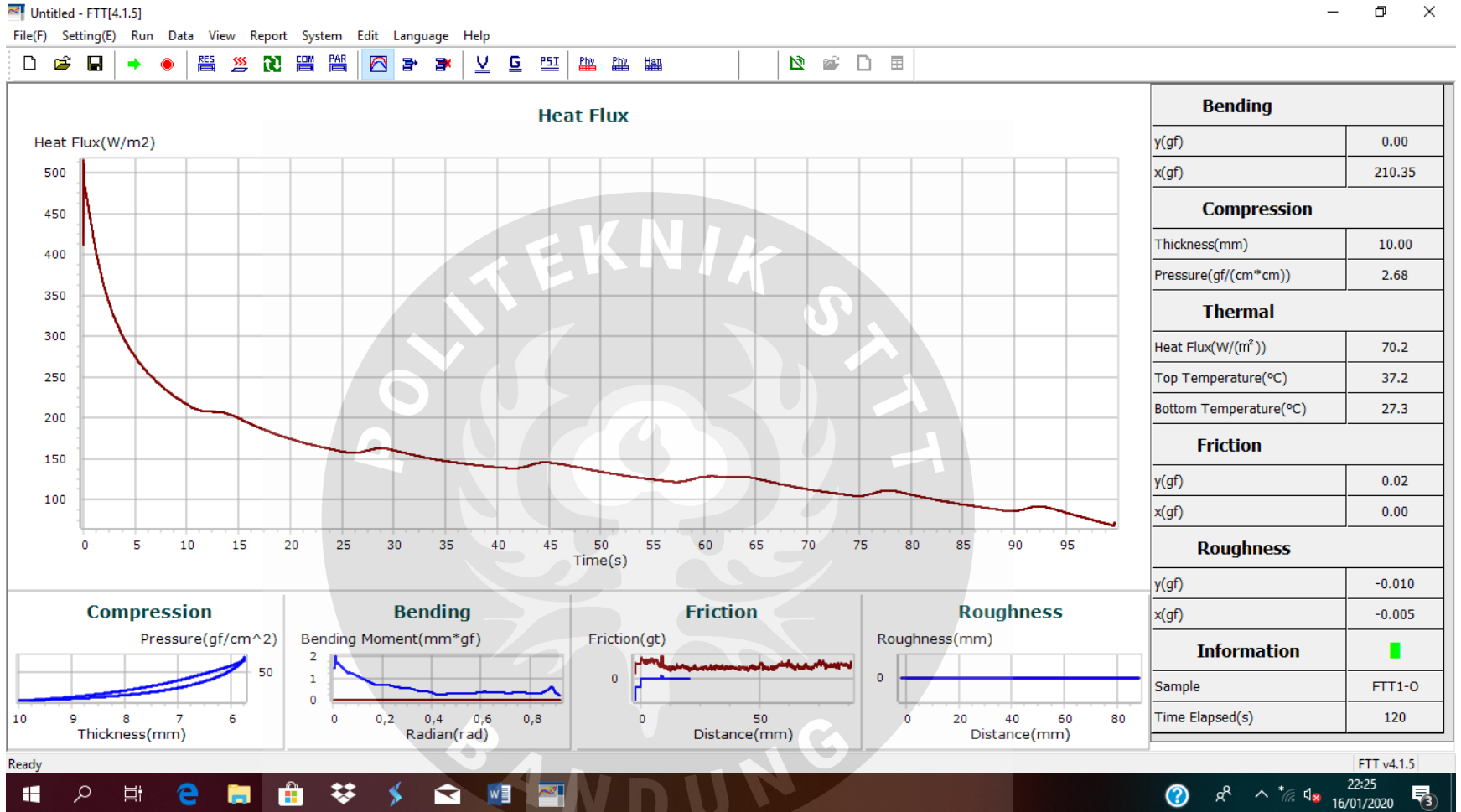
ND3

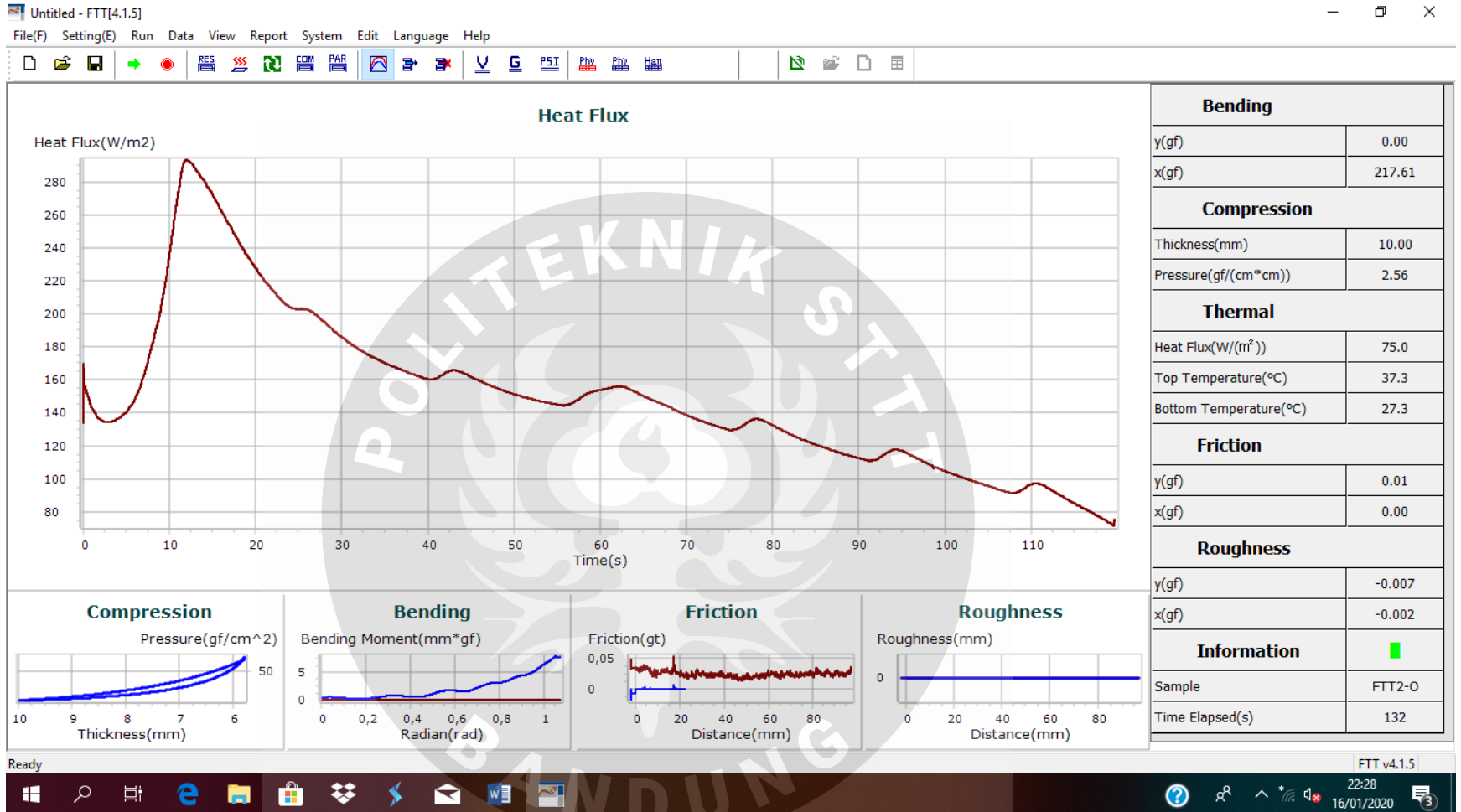


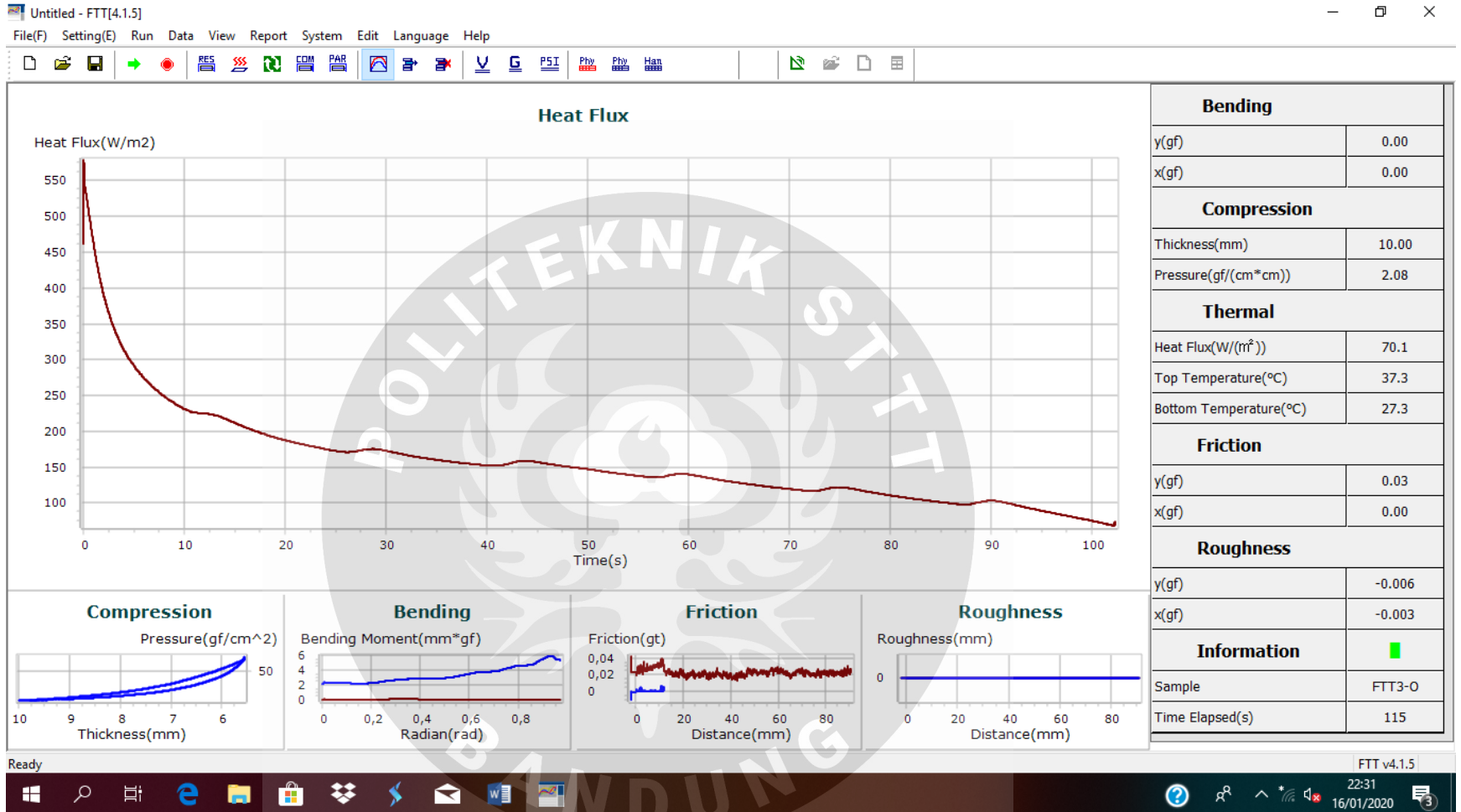




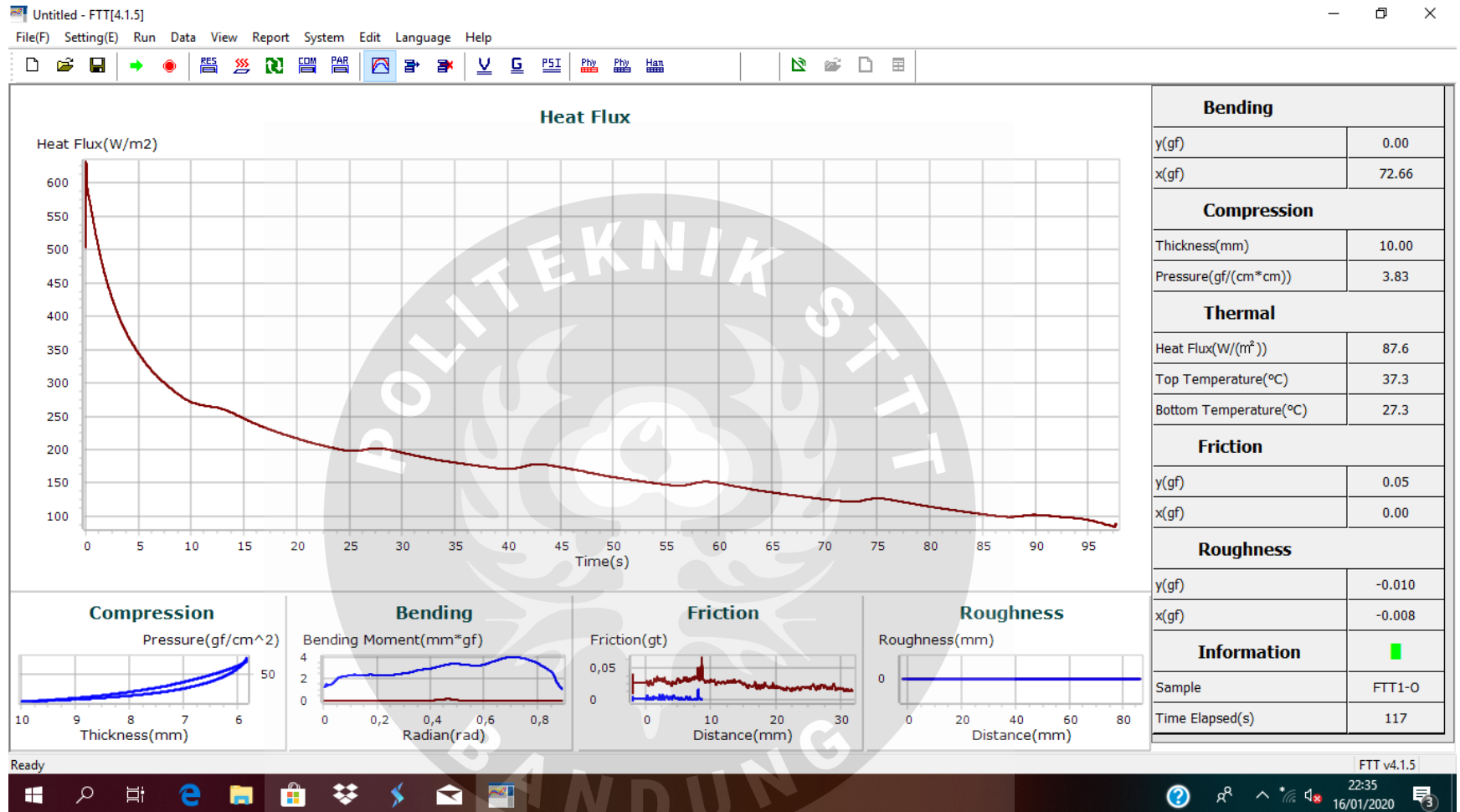
ND4

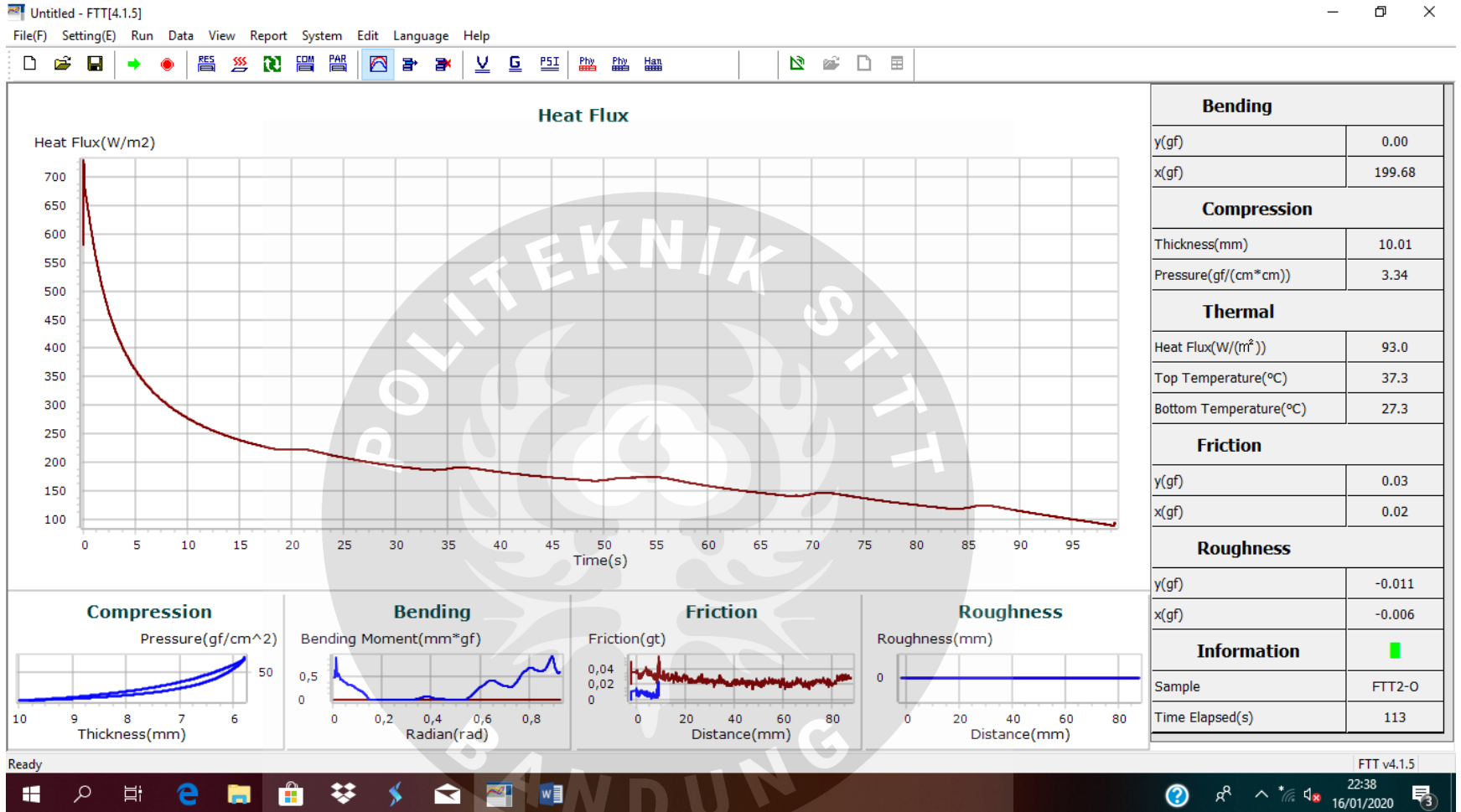


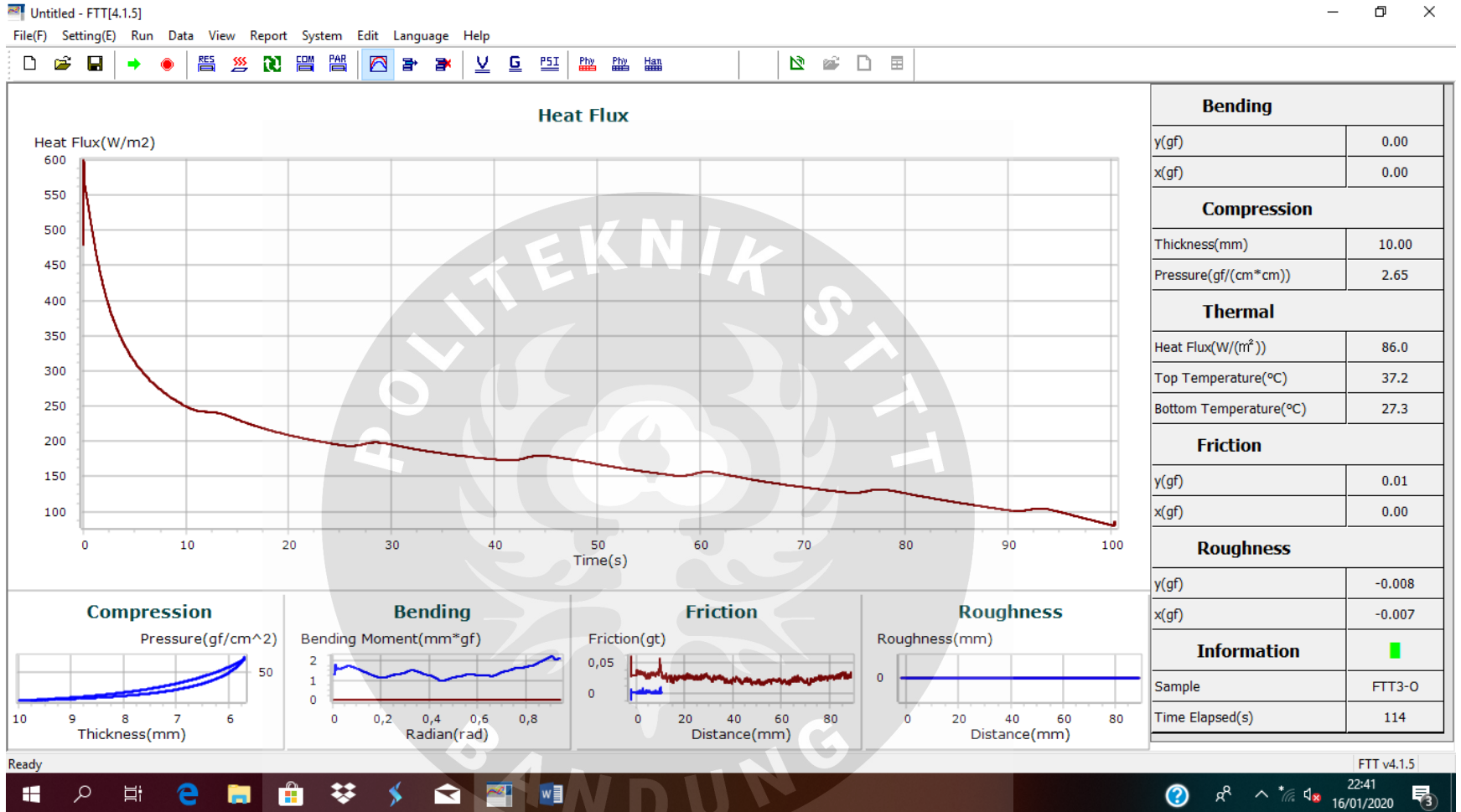


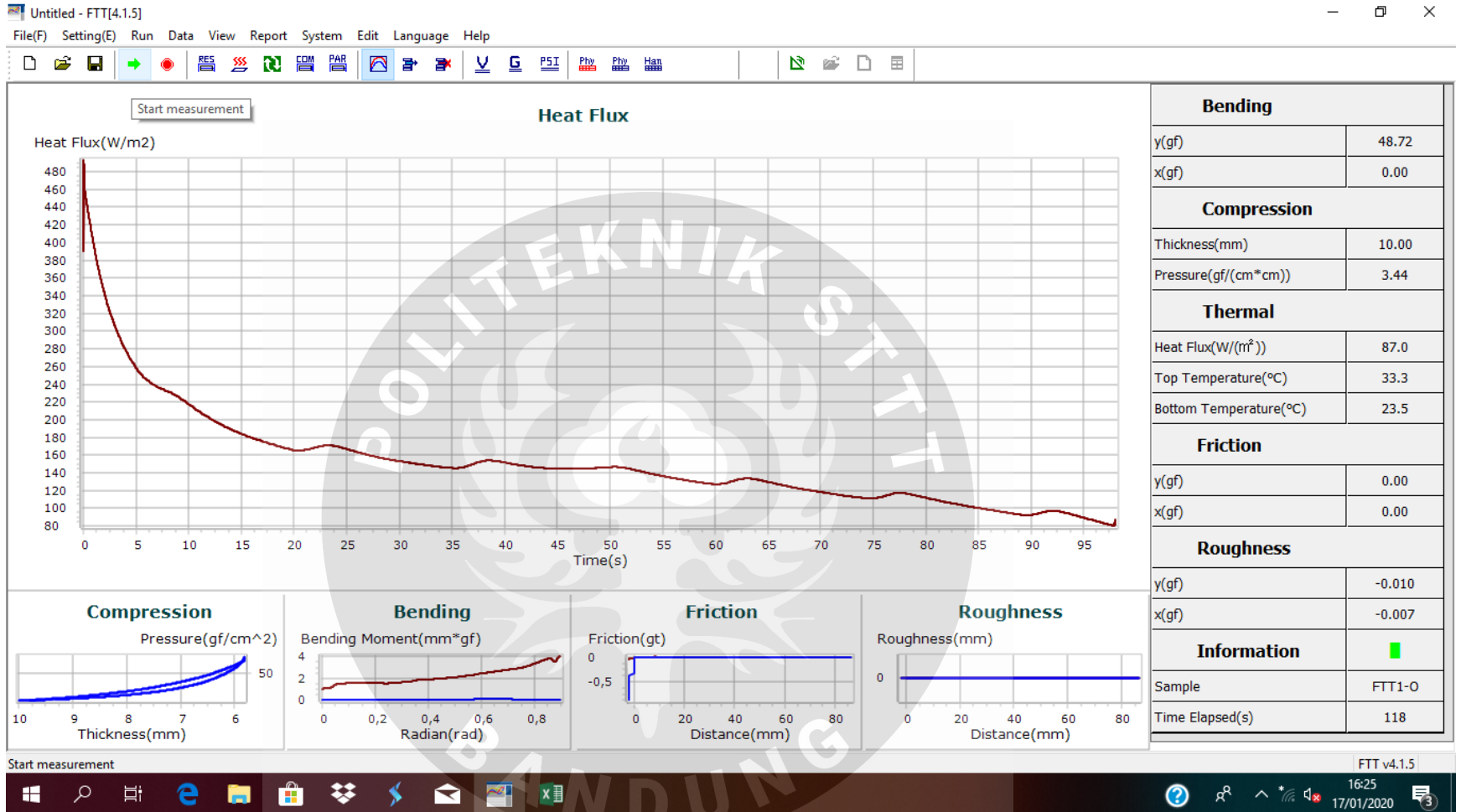


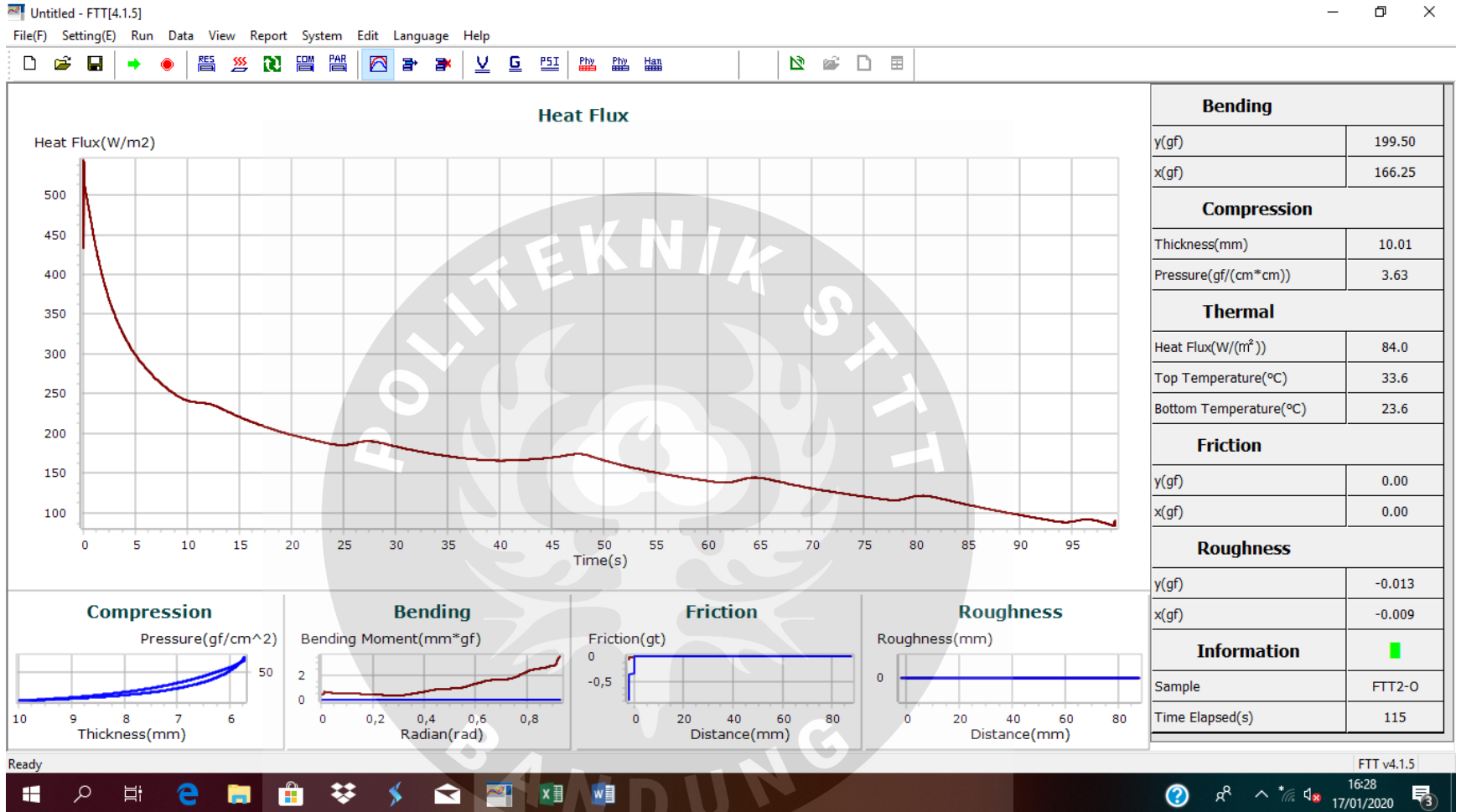
ND5

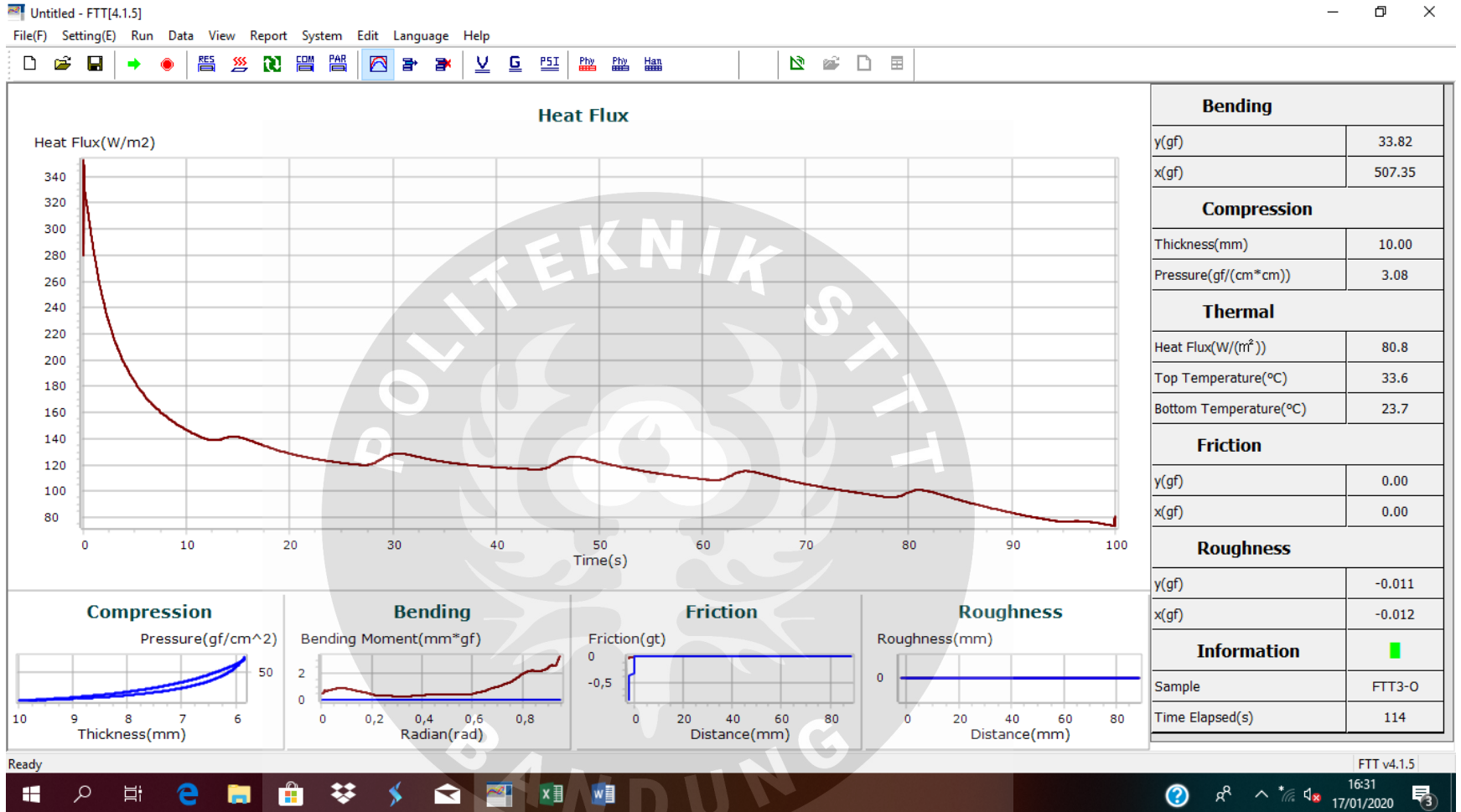












LAMPIRAN C

Rct Glasswool

Data	Heat Flux = Daya (Q)	T1 (Ch 01)	T2 (Ch 02)	Ketebalan (x)	Luas Area (A)	waktu	Rct
	(watt)	(°C)	(°C)	(m)	(m ²)	(menit)	(m ² °C/W)
1	2.5	57.6	28.4	0.025	0.021316	2	0.24897088
2	2.5	53.6	30.3	0.025	0.021316	4	0.19866512
3	2.5	53.1	30.4	0.025	0.021316	6	0.19354928
4	2.5	52.6	30.5	0.025	0.021316	8	0.18843344
5	2.5	55	30.6	0.025	0.021316	10	0.20804416
6	2.5	59.7	30.7	0.025	0.021316	12	0.2472656
7	2.5	63.8	31	0.025	0.021316	14	0.27966592
8	2.5	66.7	31.4	0.025	0.021316	16	0.30098192
9	2.5	68.4	31.8	0.025	0.021316	18	0.31206624
10	2.5	69.5	32.2	0.025	0.021316	20	0.31803472
11	2.5	69.8	32.6	0.025	0.021316	22	0.31718208
12	2.5	69.7	33	0.025	0.021316	24	0.31291888
13	2.5	69.5	33.2	0.025	0.021316	26	0.30950832
14	2.5	69	33.6	0.025	0.021316	28	0.30183456
15	2.5	69.5	33.7	0.025	0.021316	30	0.30524512
16	2.5	67.8	33.9	0.025	0.021316	32	0.28904496
17	2.5	57.7	34.1	0.025	0.021316	34	0.20122304
18	2.5	57.1	34	0.025	0.021316	36	0.19695984
19	2.5	56.6	34	0.025	0.021316	38	0.19269664
20	2.5	56	33.9	0.025	0.021316	40	0.18843344
21	2.5	55.4	33.7	0.025	0.021316	42	0.18502288
22	2.5	54.8	33.7	0.025	0.021316	44	0.17990704
23	2.5	54.8	33.7	0.025	0.021316	46	0.17990704
24	2.5	54.2	33.6	0.025	0.021316	48	0.17564384
25	2.5	53.7	33.5	0.025	0.021316	50	0.17223328
26	2.5	53.2	33.5	0.025	0.021316	52	0.16797008
27	2.5	52.7	33.4	0.025	0.021316	54	0.16455952
28	2.5	52.2	33.3	0.025	0.021316	56	0.16114896
29	2.5	51.8	33.3	0.025	0.021316	58	0.1577384
30	2.5	51.3	33.2	0.025	0.021316	60	0.15432784
31	2.5	51.3	33.2	0.025	0.021316	62	0.15432784
32	2.5	51.9	33.1	0.025	0.021316	64	0.16029632
					Rata-rata		0.222618975

C.2

Rct ND1

Data	Heat Flux = Daya (Q)	T1 (Ch 01)	T2 (Ch 02)	Ketebalan (x)	Luas Area (A)	waktu	R _{CT}
	(watt)	(°C)	(°C)	(m)	(m ²)	(waktu)	(m ² °C/W)
1	2.5	58.4	47.4	0.003	0.021316	2	0.0937904
2	2.5	57.9	47.2	0.003	0.021316	4	0.0912325
3	2.5	57.3	47	0.003	0.021316	6	0.0878219
4	2.5	56.7	47	0.003	0.021316	8	0.0827061
5	2.5	56.2	46.8	0.003	0.021316	10	0.0801482
6	2.5	55.6	46.5	0.003	0.021316	12	0.0775902
7	2.5	55.4	46.3	0.003	0.021316	14	0.0775902
8	2.5	57.9	46.7	0.003	0.021316	16	0.0954957
9	2.5	61.3	47.4	0.003	0.021316	18	0.118517
10	2.5	64.2	48.3	0.003	0.021316	20	0.1355698
11	2.5	66.2	49.1	0.003	0.021316	22	0.1458014
12	2.5	67.3	49.9	0.003	0.021316	24	0.1483594
13	2.5	67.9	50.5	0.003	0.021316	26	0.1483594
14	2.5	68.2	51	0.003	0.021316	28	0.1466541
15	2.5	68.1	51.5	0.003	0.021316	30	0.1415382
16	2.5	67.7	51.9	0.003	0.021316	32	0.1347171
17	2.5	67.3	52.1	0.003	0.021316	34	0.1296013
18	2.5	66.8	52.2	0.003	0.021316	36	0.1244854
19	2.5	66.2	52.2	0.003	0.021316	38	0.1193696
20	2.5	65.6	52.2	0.003	0.021316	40	0.1142538
21	2.5	65	52.1	0.003	0.021316	42	0.1099906
22	2.5	64.3	52.1	0.003	0.021316	44	0.1040221
23	2.5	63.7	51.9	0.003	0.021316	46	0.1006115
24	2.5	63	51.7	0.003	0.021316	48	0.0963483
25	2.5	62.3	51.5	0.003	0.021316	50	0.0920851
26	2.5	61.7	51.3	0.003	0.021316	52	0.0886746
27	2.5	61	51	0.003	0.021316	54	0.085264
28	2.5	60.4	50.7	0.003	0.021316	56	0.0827061
29	2.5	53.3	46.5	0.003	0.021316	58	0.0579795
30	2.5	52.9	46.3	0.003	0.021316	60	0.0562742
					Rata-rata		0.1055853

Rct ND2

Data	Heat Flux = Daya (Q)	T1 (Ch 01)	T2 (Ch 02)	Ketebalan (x)	Luas Area (A)	waktu	R _{CT}
	(watt)	(°C)	(°C)	(m)	(m ²)		(m ² °C/W)
1	2.5	55	44.8	0.004	0.021316	2	0.0869693
2	2.5	54.5	44.6	0.004	0.021316	4	0.0844114
3	2.5	54	44.4	0.004	0.021316	6	0.0818534
4	2.5	53.5	44.2	0.004	0.021316	8	0.0792955
5	2.5	53.1	43.9	0.004	0.021316	10	0.0784429
6	2.5	52.6	43.7	0.004	0.021316	12	0.075885
7	2.5	52.1	43.6	0.004	0.021316	14	0.0724744
8	2.5	51.7	43.3	0.004	0.021316	16	0.0716218
9	2.5	51.3	43.1	0.004	0.021316	18	0.0699165
10	2.5	52.5	43	0.004	0.021316	20	0.0810008
11	2.5	57.2	43.5	0.004	0.021316	22	0.1168117
12	2.5	67.8	47.8	0.004	0.021316	24	0.170528
13	2.5	67.6	48.3	0.004	0.021316	26	0.1645595
14	2.5	67.2	48.6	0.004	0.021316	28	0.158591
15	2.5	66.7	49	0.004	0.021316	30	0.1509173
16	2.5	66.1	49.3	0.004	0.021316	32	0.1432435
17	2.5	65.7	49.4	0.004	0.021316	34	0.1389803
18	2.5	65	49.5	0.004	0.021316	36	0.1321592
19	2.5	64.3	49.4	0.004	0.021316	38	0.1270434
20	2.5	63.7	49.4	0.004	0.021316	40	0.1219275
21	2.5	63	49.3	0.004	0.021316	42	0.1168117
22	2.5	59	48.2	0.004	0.021316	44	0.0920851
23	2.5	58.4	47.9	0.004	0.021316	46	0.0895272
24	2.5	57.8	47.7	0.004	0.021316	48	0.0861166
25	2.5	57.2	47.4	0.004	0.021316	50	0.0835587
26	2.5	56.7	47.3	0.004	0.021316	52	0.0801482
27	2.5	56.2	47	0.004	0.021316	54	0.0784429
28	2.5	55.6	46.7	0.004	0.021316	56	0.075885
29	2.5	55	46.4	0.004	0.021316	58	0.073327
30	2.5	54.6	46.1	0.004	0.021316	60	0.0724744
					Rata-rata		0.1018336

C.4

Rct ND3

Data	Heat Flux = Daya (Q)	T1 (Ch 01)	T2 (Ch 02)	Ketebalan (x)	Luas Area (A)	waktu	R _{CT}
	(watt)	(°C)	(°C)	(m)	(m ²)	(menit)	(m ² °C/W)
1	2.7	65.5	32.2	0.008	0.021316	2	0.262897333
2	2.7	65	32.5	0.008	0.021316	4	0.256581481
3	2.7	64.5	32.7	0.008	0.021316	6	0.251055111
4	2.7	63.9	32.8	0.008	0.021316	8	0.245528741
5	2.7	63.3	32.9	0.008	0.021316	10	0.24000237
6	2.7	62.6	33	0.008	0.021316	12	0.233686519
7	2.7	62	33.1	0.008	0.021316	14	0.228160148
8	2.7	61.3	33.2	0.008	0.021316	16	0.221844296
9	2.7	60.6	33.3	0.008	0.021316	18	0.215528444
10	2.7	60	33.4	0.008	0.021316	20	0.210002074
11	2.7	59.4	33.5	0.008	0.021316	22	0.204475704
12	2.7	58.8	33.5	0.008	0.021316	24	0.199738815
13	2.7	58.1	33.5	0.008	0.021316	26	0.194212444
14	2.7	57.5	33.5	0.008	0.021316	28	0.189475556
15	2.7	56.9	33.3	0.008	0.021316	30	0.18631763
16	2.7	55	34.2	0.008	0.021316	32	0.164212148
17	2.7	54.4	34.4	0.008	0.021316	34	0.157896296
18	2.7	53.2	35.4	0.008	0.021316	36	0.140527704
19	2.7	52.7	35.7	0.008	0.021316	38	0.134211852
20	2.7	63.7	37.7	0.008	0.021316	40	0.205265185
21	2.7	68.8	38.4	0.008	0.021316	42	0.24000237
22	2.7	66.2	39.1	0.008	0.021316	44	0.213949481
23	2.7	67.7	39.8	0.008	0.021316	46	0.220265333
24	2.7	68.8	40.4	0.008	0.021316	48	0.224212741
25	2.7	68.7	41	0.008	0.021316	50	0.21868637
26	2.7	68.5	41.4	0.008	0.021316	52	0.213949481
27	2.7	61.7	43	0.008	0.021316	54	0.147633037
28	2.7	61.2	42.9	0.008	0.021316	56	0.144475111
29	2.7	60.6	42.8	0.008	0.021316	58	0.140527704
30	2.7	60	42.8	0.008	0.021316	60	0.135790815
					Rata-rata		0.20137041

C.5

Rct ND4

Data	Heat Flux = Daya (Q)	T1 (Ch 01)	T2 (Ch 02)	Ketebalan (x)	Luas Area (A)	waktu	Rct
	(watt)	(°C)	(°C)	(m)	(m ²)	(menit)	(m ² °C/W)
1	2.7	51.5	33.7	0.01	0.021316	2	0.140527704
2	2.7	52.3	33.8	0.01	0.021316	4	0.146054074
3	2.7	57.1	33.9	0.01	0.021316	6	0.183159704
4	2.7	61.8	34.3	0.01	0.021316	8	0.217107407
5	2.7	69.3	37	0.01	0.021316	10	0.255002519
6	2.7	69.2	37.4	0.01	0.021316	12	0.251055111
7	2.7	69	37.7	0.01	0.021316	14	0.247107704
8	2.7	68.5	37.9	0.01	0.021316	16	0.241581333
9	2.7	68.1	38.1	0.01	0.021316	18	0.236844444
10	2.7	67.6	38.2	0.01	0.021316	20	0.232107556
11	2.7	63.6	38.5	0.01	0.021316	22	0.198159852
12	2.7	63	38.5	0.01	0.021316	24	0.193422963
13	2.7	62.4	38.4	0.01	0.021316	26	0.189475556
14	2.7	61.8	38.3	0.01	0.021316	28	0.185528148
15	2.7	61.2	38.3	0.01	0.021316	30	0.180791259
16	2.7	60.6	38.2	0.01	0.021316	32	0.176843852
17	2.7	60	38.1	0.01	0.021316	34	0.172896444
18	2.7	59.4	37.9	0.01	0.021316	36	0.169738519
19	2.7	58.9	37.8	0.01	0.021316	38	0.166580593
20	2.7	58.4	37.7	0.01	0.021316	40	0.163422667
21	2.7	57.9	37.7	0.01	0.021316	42	0.159475259
22	2.7	57.4	37.5	0.01	0.021316	44	0.157106815
23	2.7	56.8	37.4	0.01	0.021316	46	0.153159407
24	2.7	56.3	37.3	0.01	0.021316	48	0.150001481
25	2.7	55.9	37.2	0.01	0.021316	50	0.147633037
26	2.7	55.4	37	0.01	0.021316	52	0.145264593
27	2.7	55	37	0.01	0.021316	54	0.142106667
28	2.7	54.5	36.9	0.01	0.021316	56	0.138948741
29	2.7	54	36.7	0.01	0.021316	58	0.136580296
30	2.7	53.6	36.6	0.01	0.021316	60	0.134211852
					Rata-rata		0.180396519

Rct ND5

Data	Heat Flux = Daya (Q)	T1 (Ch 01)	T2 (Ch 02)	Ketebalan (x)	Luas Area (A)	waktu	R _{CT}
	(watt)	(°C)	(°C)	(m)	(m ²)	(menit)	(m ² °C/W)
1	2.7	66.7	36.8	0.01	0.021316	2	0.236054963
2	2.7	66.4	37	0.01	0.021316	4	0.232107556
3	2.7	65.5	37.5	0.01	0.021316	6	0.221054815
4	2.7	65	37.7	0.01	0.021316	8	0.215528444
5	2.7	64.5	37.7	0.01	0.021316	10	0.211581037
6	2.7	64	37.8	0.01	0.021316	12	0.206844148
7	2.7	63.4	37.8	0.01	0.021316	14	0.202107259
8	2.7	62.9	37.9	0.01	0.021316	16	0.19737037
9	2.7	62.3	37.9	0.01	0.021316	18	0.192633481
10	2.7	61.7	37.9	0.01	0.021316	20	0.187896593
11	2.7	61.2	37.9	0.01	0.021316	22	0.183949185
12	2.7	60.6	37.9	0.01	0.021316	24	0.179212296
13	2.7	60.1	37.9	0.01	0.021316	26	0.175264889
14	2.7	59.5	37.8	0.01	0.021316	28	0.171317481
15	2.7	59	37.7	0.01	0.021316	30	0.168159556
16	2.7	58.5	37.7	0.01	0.021316	32	0.164212148
17	2.7	57.9	37.7	0.01	0.021316	34	0.159475259
18	2.7	57.4	37.6	0.01	0.021316	36	0.156317333
19	2.7	57	37.6	0.01	0.021316	38	0.153159407
20	2.7	56.5	37.5	0.01	0.021316	40	0.150001481
21	2.7	56.2	37.4	0.01	0.021316	42	0.148422519
22	2.7	55.7	37.3	0.01	0.021316	44	0.145264593
23	2.7	55.2	37.2	0.01	0.021316	46	0.142106667
24	2.7	55.7	37.1	0.01	0.021316	48	0.146843556
25	2.7	54.4	37	0.01	0.021316	50	0.137369778
26	2.7	53.8	37	0.01	0.021316	52	0.132632889
27	2.7	53.4	36.8	0.01	0.021316	54	0.131053926
28	2.7	53	36.6	0.01	0.021316	56	0.129474963
29	2.7	52.6	36.5	0.01	0.021316	58	0.127106519
30	2.7	52.2	36.3	0.01	0.021316	60	0.125527556
					Rata-rata		0.171001689



