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LAMPIRAN

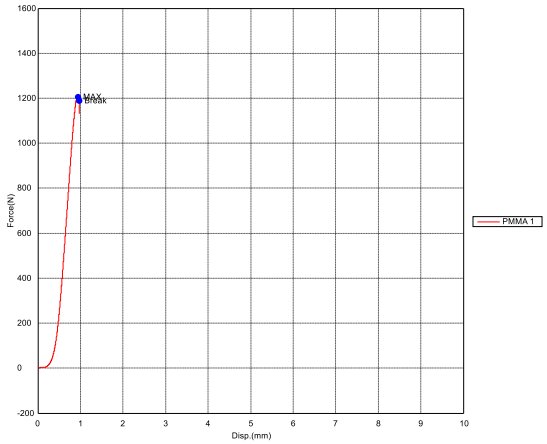
Lampiran 1 Tabel grafik pengujian tekan

Key Word		Product Name	
Test File Name compress composit.lmax	pmma & AG 200.ltax	Method File Name	
Report Date 2213/01/09	2213/01/09	Test Date	
Test Type 5mm/min	Compression	Speed	
Shape	Plate	No of Batches:	1
Qty/Batch:	6		

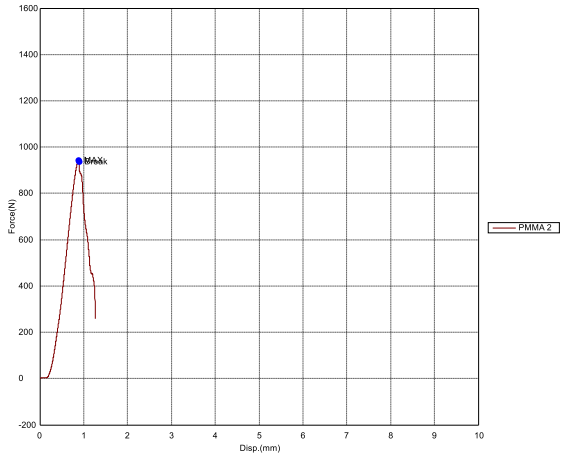
Name	Thickness	Width	Height
Unit	mm	mm	mm
PMMA 1	9.5000	10.0000	6.0000
PMMA 2	9.5000	10.0000	6.0000
PMMA 3	12.0000	10.0000	6.0000
AG 200 1	12.0000	12.0000	6.0000
AG 200 2	11.0000	12.0000	6.0000
AG 200 3	11.0000	12.0000	6.0000

Name	Max_Force	Max_Disp.	Break_Force	Break_Disp.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
PMMA 1	1206.21	0.94443	1187.82	0.96860
PMMA 2	943.633	0.88443	935.721	0.89363
PMMA 3	1558.20	3.75190	1440.63	3.80190
AG 200 1	1338.23	1.06613	435.085	1.45860
AG 200 2	1212.45	0.90027	-.-	-.-
AG 200 3	1574.04	1.09027	1323.73	1.22947

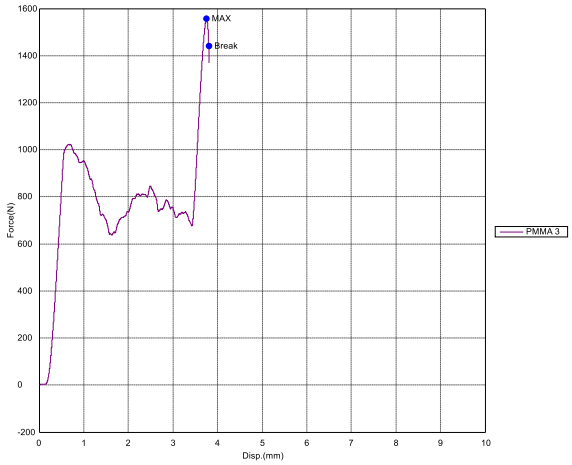
Gambar A.1 PMMA 1



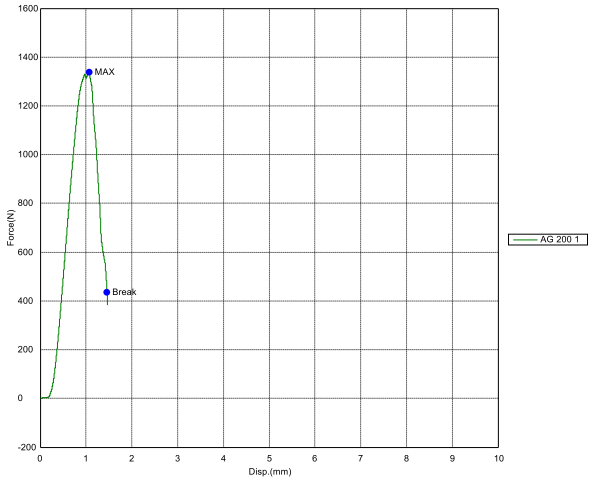
Gambar A.2 PMMA 2



Gambar A.3 PMMA 3



Gambar A.4 PMMA + AG 200 1



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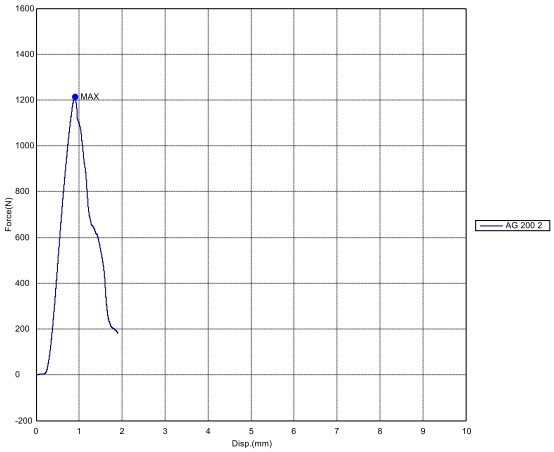

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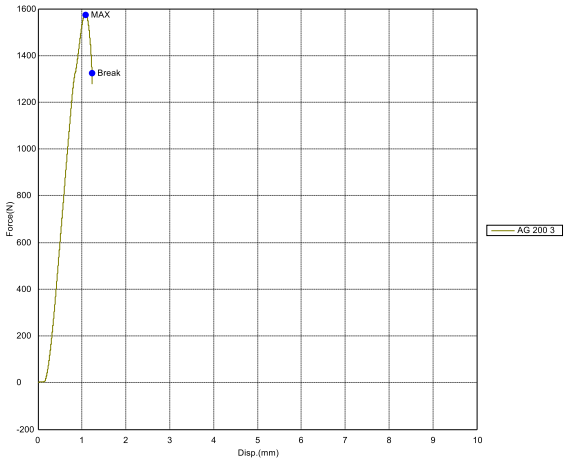
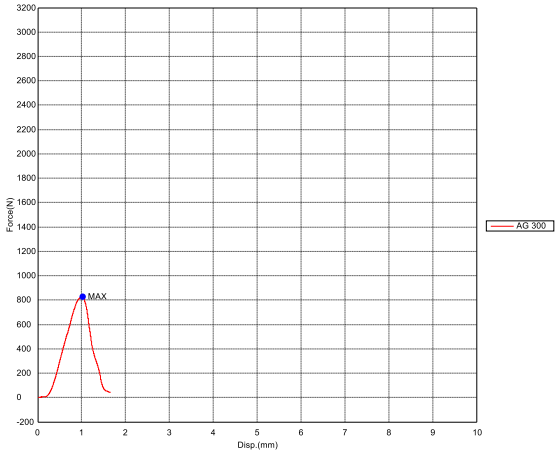


Key Word		Product Name	
Test File Name compress composit.lmax	AG 300 400.ltax	Method File Name	
Report Date 2213/01/09	2213/01/09	Test Date	
Test Type 5mm/min	Compression	Speed	
Shape	Plate	No of Batches:	1
Qty/Batch:	6		

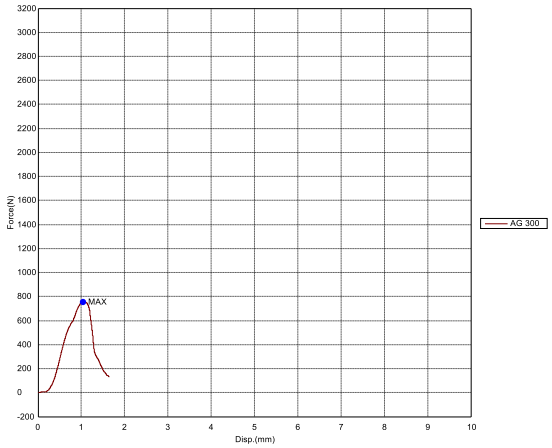
Name	Thickness	Width	Height
Unit	mm	mm	mm
AG 300	9.0000	9.0000	5.0000
AG 300	10.0000	9.0000	5.0000
AG 300	10.0000	9.0000	5.0000
AG 400	10.0000	10.0000	5.0000
AG 400	10.0000	9.0000	5.0000
AG 400	9.0000	9.0000	5.0000

Name	Max_Force	Max_Disp.	Break_Force	Break_Disp.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity	Sensitivity 10
Unit	N	mm	N	mm
AG 300	830.154	1.02277	-.-	-.-
AG 300	755.529	1.03117	-.-	-.-
AG 300	1129.10	1.08527	-.-	-.-
AG 400	1737.31	1.02193	-.-	-.-
AG 400	1466.08	0.97777	-.-	-.-
AG 400	1696.05	1.31277	-.-	-.-

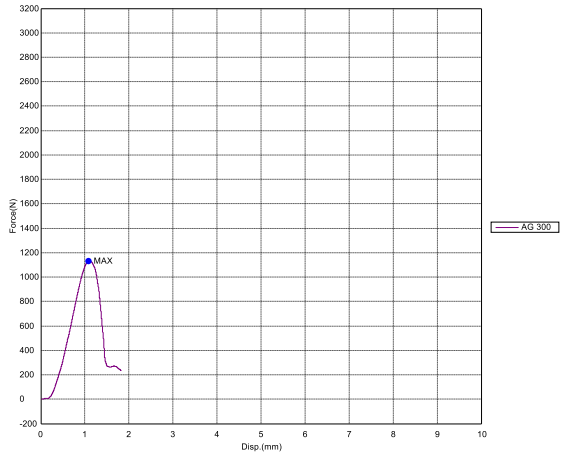
Gambar A.7 PMMA + AG 300 1



Gambar A.8 PMMA + AG 300 2



Gambar A.9 PMMA + AG 300 3



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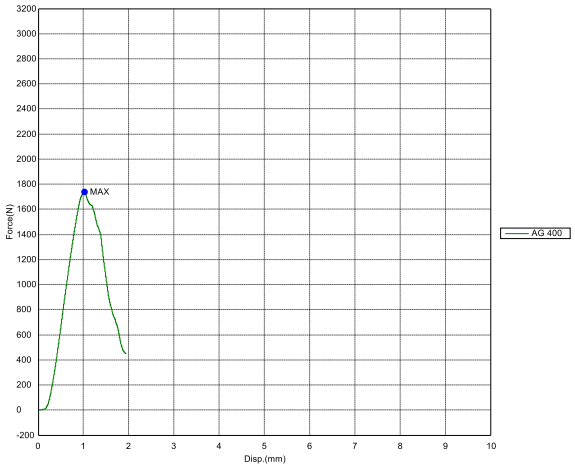
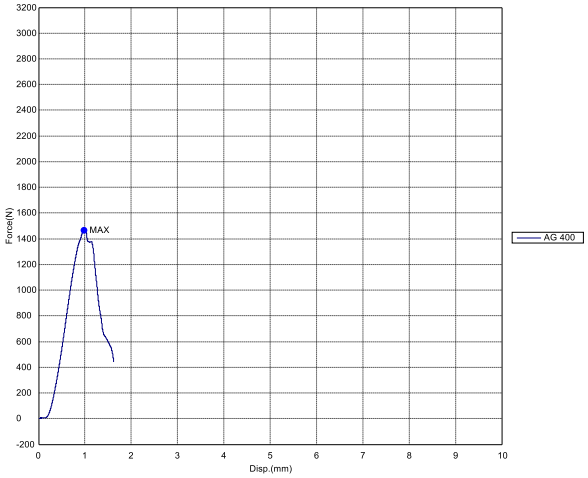
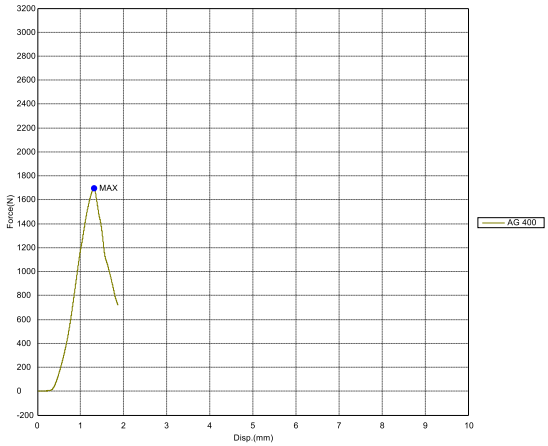


Gambar A.11 PMMA + AG 400 2



Gambar A.12 PMMA + AG 400 3



Key Word		Product Name	
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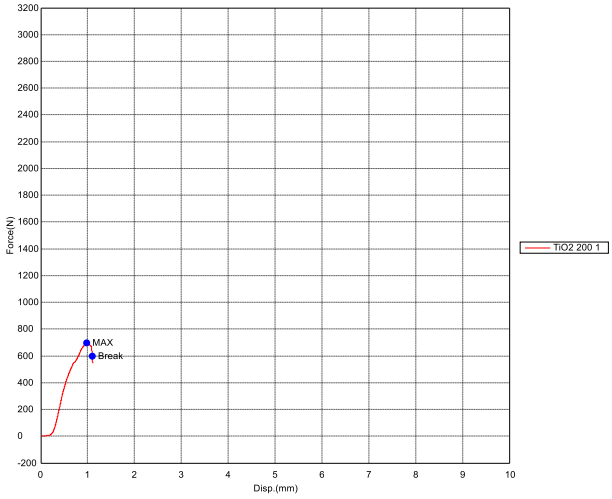
Report Date	2213/01/09	Test Date	2213/01/09
Test Type	Compression	Speed	5mm/min
Shape	Plate	No of Batches:	1
Qty/Batch:	9		

Name	Thickness	Width	Height
Unit	mm	mm	mm
TiO2 200 1	10.0000	10.0000	4.0000
TiO2 200 2	8.0000	8.0000	5.0000
TiO2 200 3	9.0000	9.0000	4.0000
TiO2 300 1	12.0000	12.0000	6.0000
TiO2 300 2	11.0000	12.0000	5.0000
TiO2 300 3	12.0000	12.0000	6.0000
TiO2 400 1	9.0000	9.0000	5.0000
TiO2 400 2	10.0000	9.0000	5.0000
TiO2 400 3	10.0000	10.0000	5.0000

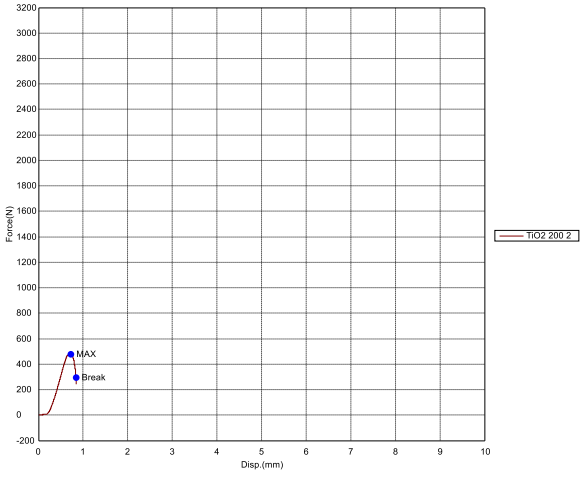
Name	Max_Force	Max_Disp.	Break_Force	Break_Disp.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity	Sensitivity 10
Unit	N	mm	N	mm
TiO2 200 1	697.928	0.97280	595.687	1.10027
TiO2 200 2	476.548	0.72447	293.992	0.84200

TiO2 200 3	558.864	0.90780	96.2154	1.16033
TiO2 300 1	1223.12	0.89443	1109.60	1.09277
TiO2 300 2	982.781	0.96947	847.468	1.06447
TiO2 300 3	1517.71	1.00447	1386.90	1.17780
TiO2 400 1	832.393	0.99697	-.-	-.-
TiO2 400 2	893.134	1.04693	-.-	-.-
TiO2 400 3	1885.62	1.12447	1667.10	1.28780

Gambar A.13 PMMA + TiO_2 200 1



Gambar A.14 PMMA + TiO_2 200 2



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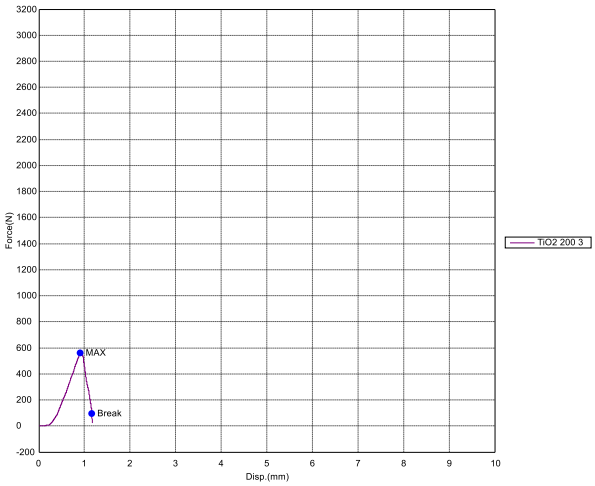
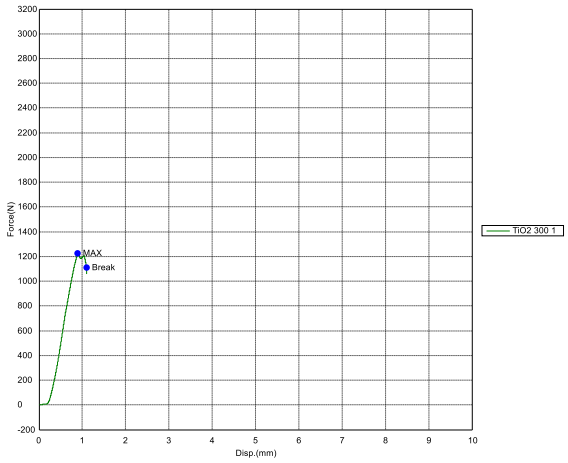
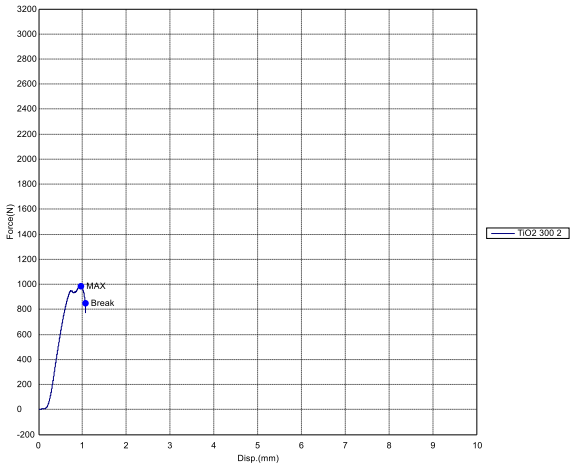


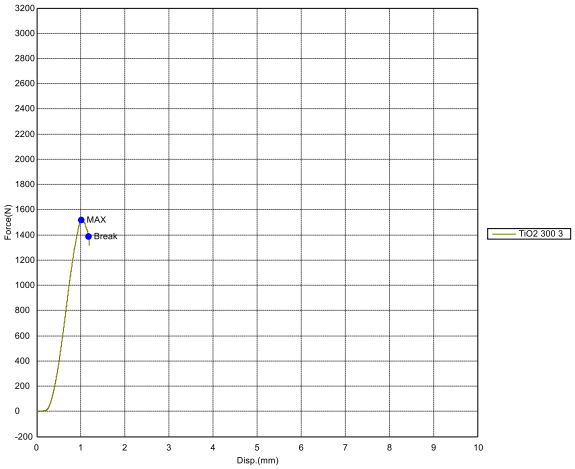
Gambar A.16 PMMA + TiO_2 300 1



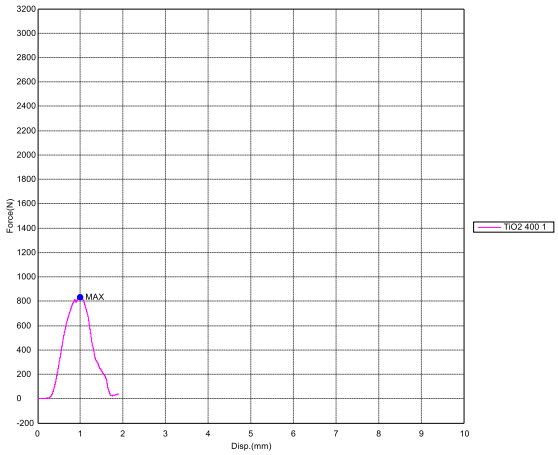
Gambar A.17 PMMA + TiO_2 300 2



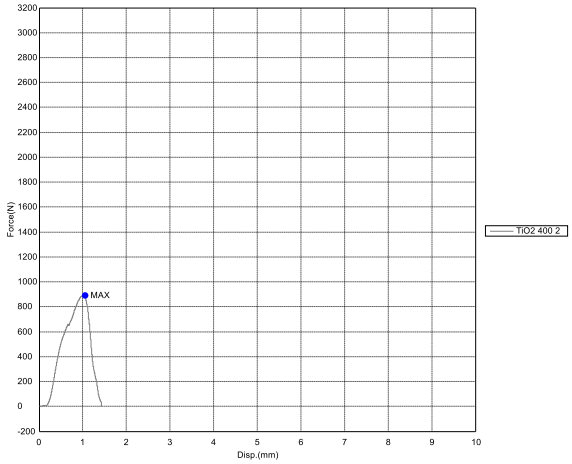
Gambar A.18 PMMA + TiO_2 300 3



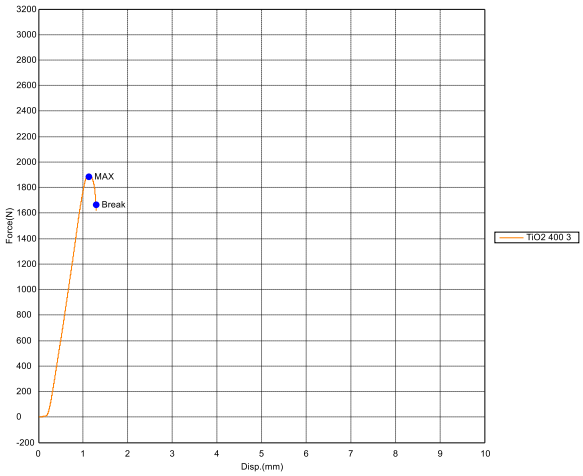
Gambar A.19 PMMA + TiO_2 400 1



Gambar A.20 PMMA + TiO_2 400 2



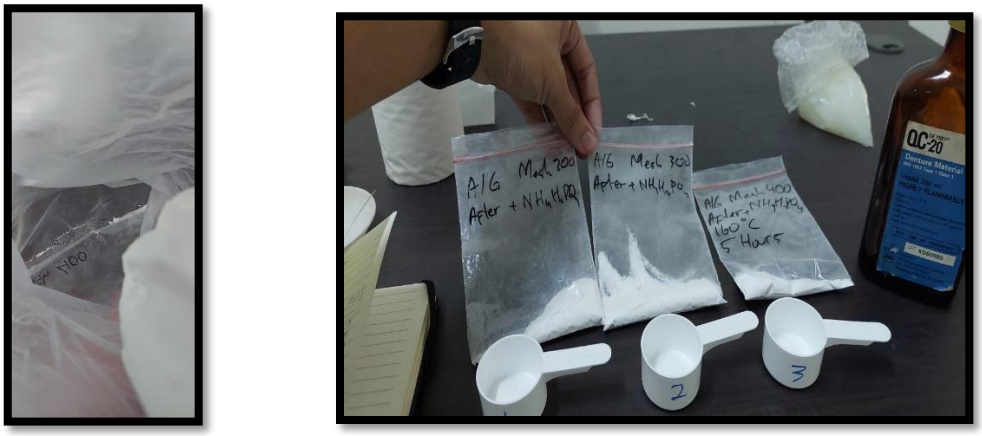
Gambar A.21 PMMA + TiO_2 400 3



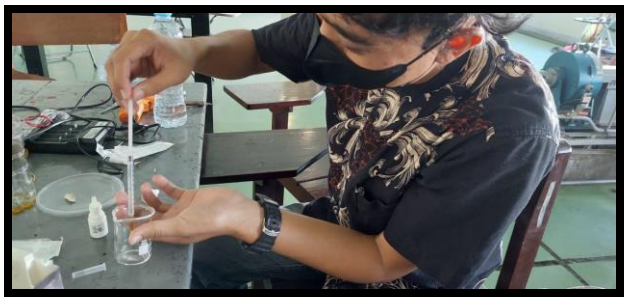
Lampiran 2 Dokementasi kegiatan penelitian

Gambar B.1 Proses pemecahan cangkang kerang darah menjadi bubuk

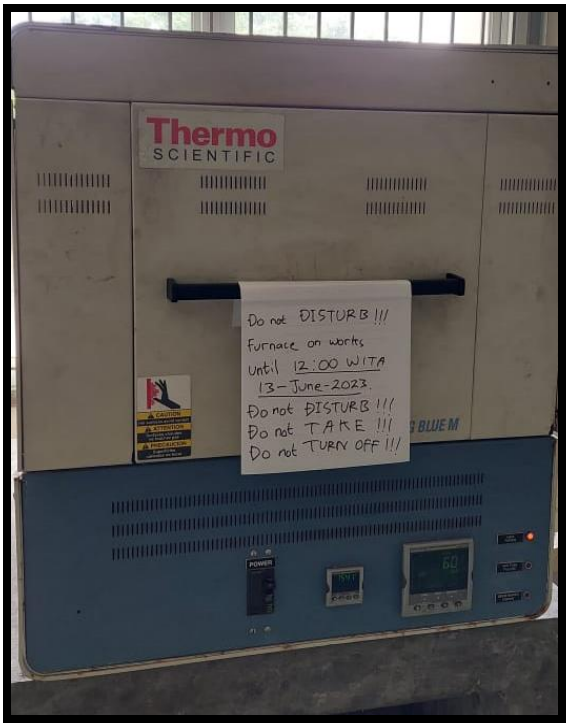
Gambar B.2 Proses kalsinasi bubuk cangkang kerang darah



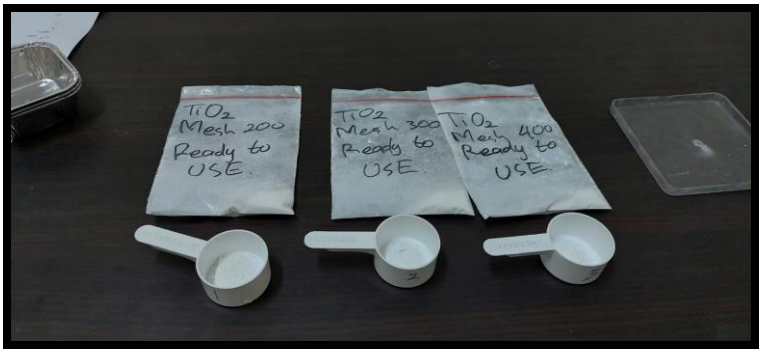
Gambar B.3 Proses silanisasi titanium dioksida




Heidolph
ROTARY EVAPORATOR


Thermo
SCIENTIFIC
Do not DISTURB !!!
Furnace on works
Until 12:00 WITA
13-June-2023.
Do not DISTURB !!!
Do not TAKE !!!
Do not TURN OFF !!!
BLUE M


TiO2 Mesh 400 Ready to USE
TiO2 Mesh 200 Ready to USE

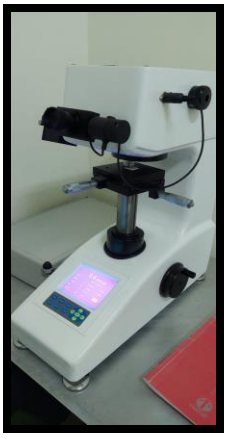

TiO2 Mesh 200 Ready to USE
TiO2 Mesh 300 Ready to USE
TiO2 Mesh 400 Ready to USE

Gambar B.4 Proses pembuatan spesimen dengan metode kompaksi dan heat curing

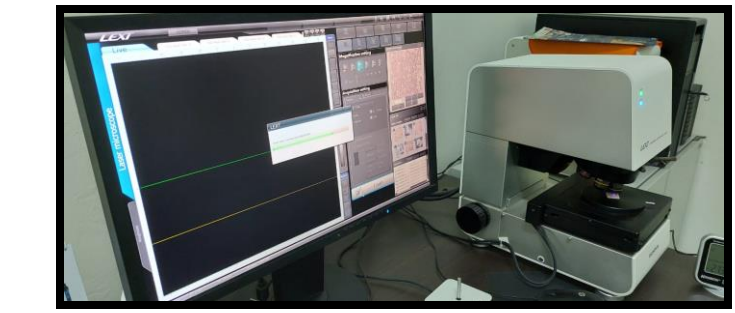

ε=.096
30.9 °C
66%
23.7
75.4
MODE
°C/°F

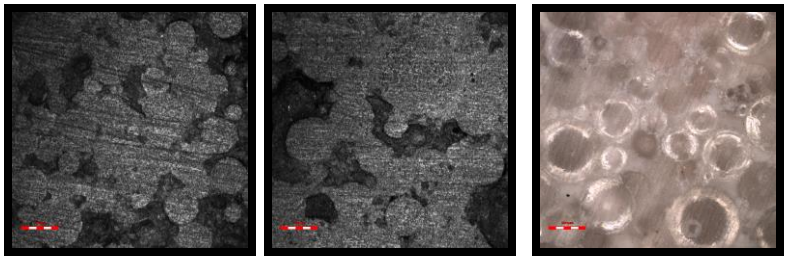

GAS

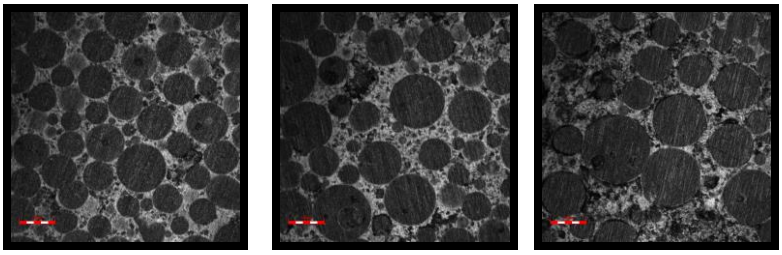
Gambar B.5 Pengujian kekerasan

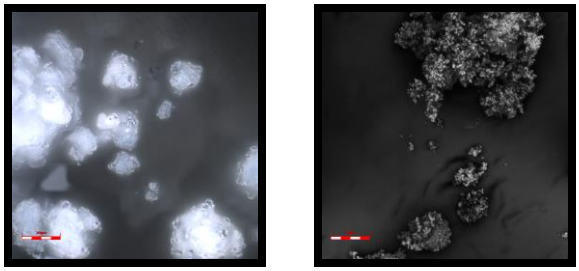


Gambar B.6 Pengamatan struktur mikro

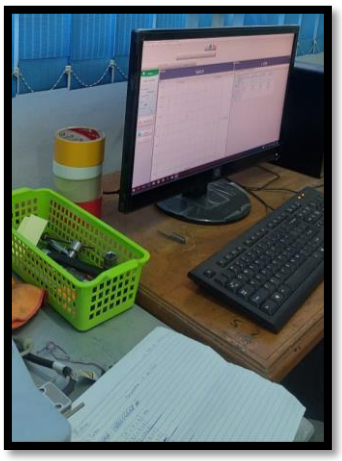








Gambar B.7 Pengujian tekan

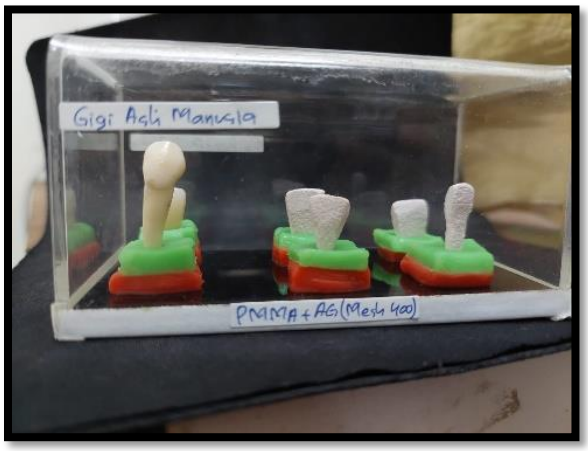


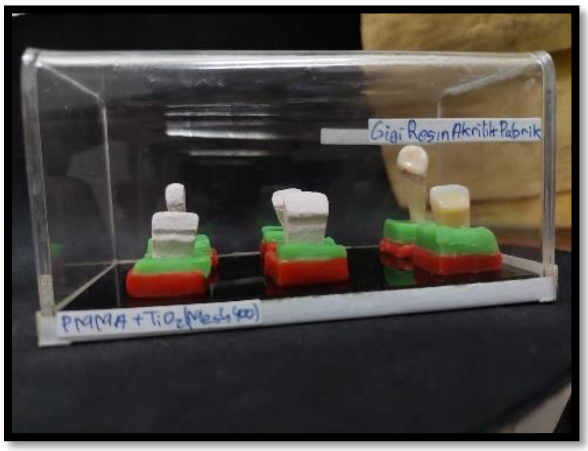
Raw Material

Filler Cangkang Kerang Darah

Filler TiO_2

Gambar B.8 Pengujian densitas





Gambar B.9 Pengujian Skripsi

Selasa, 28 – November – 2023
13 : 00 – 14 : 00 WITA
Fakultas Teknik Unhas, Kab. Gowa.