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LAMPIRAN

Lampiran 1 Gambar proses penelitian

Gambar A. 1 Pemasukan bahan kedalam

Gambar A. 2 Pemasukan cetakan kedalam reaktor

Gambar A. 3 Proses *Treatment*

Gambar A. 4 Pengujian impak

Gambar A. 5 Pengujian tarik

Gambar A. 6 Pengujian penyerapan air

(1) (2) (3)

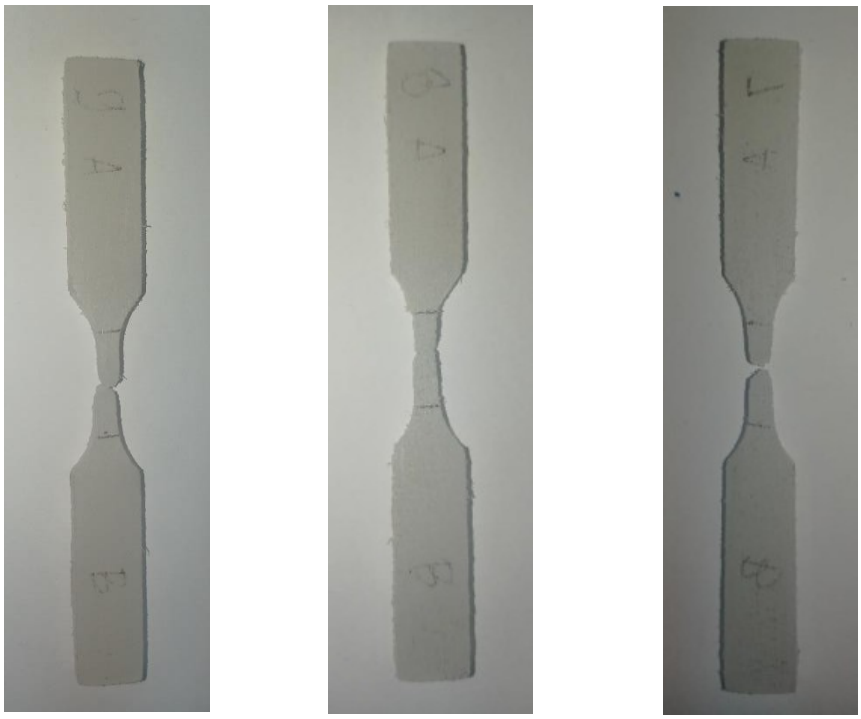
Gambar A.7 Hasil Uji Tarik Komposit Serat Sabut Kelapa (1,2,3) Temperatur 150°C

(1) (2) (3)

mbar A.8 Hasil Uji Tarik Komposit Serat Sabut Kelapa (1,2,3) Temperatur 200°C

(1) (2) (3)

Gambar A.9 Hasil Uji Tarik Komposit Serat Sabut Kelapa (1,2,3) Temperatur 250°C

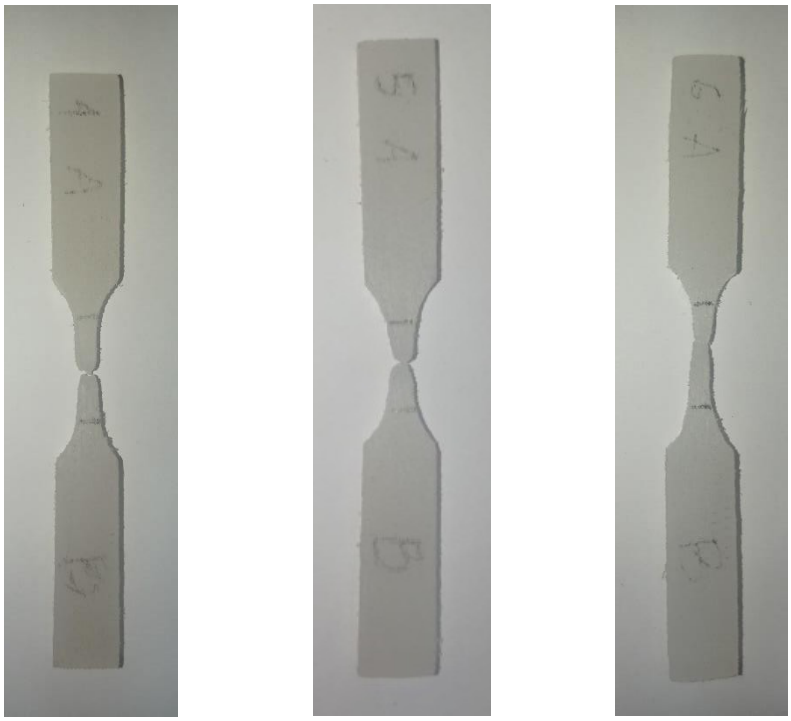


(1) (2) (3)

Gambar A.10 Hasil Uji Tarik Based Material Plastik (1,2,3) Temperatur 150°C

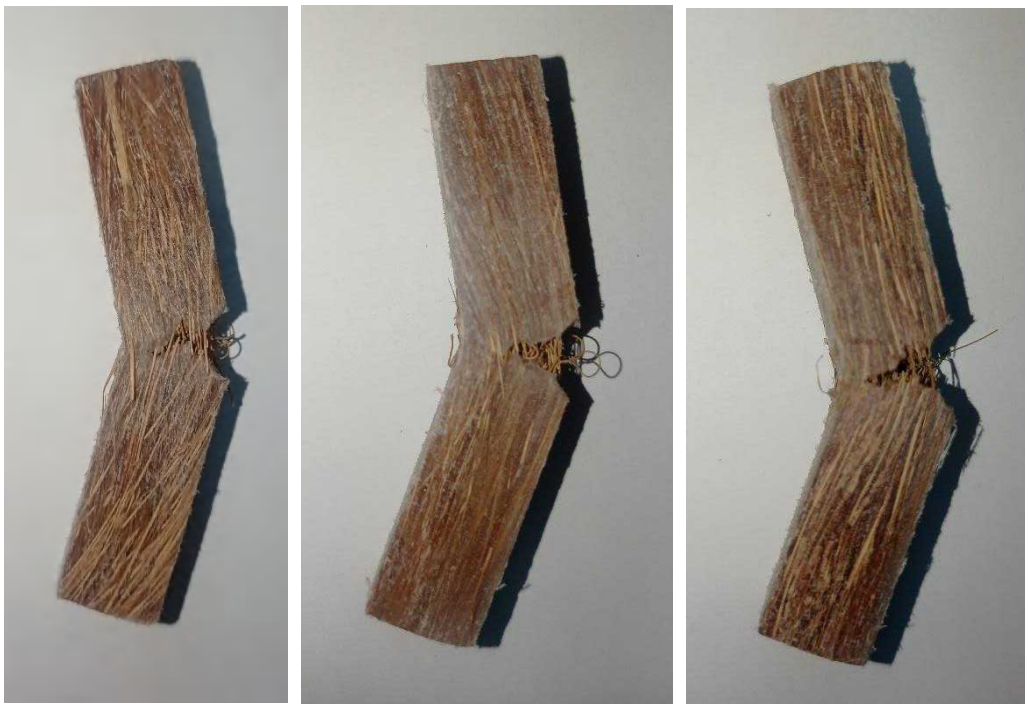
(1) (2) (3)

Gambar A.11 Hasil Uji Tarik Based Material Plastik (1,2,3) Temperatur 200°C



(1) (2) (3)

mbar A.12 Hasil Uji Tarik Based Material Plastik (1,2,3) Temperatur 250°C



(1) (2) (3)

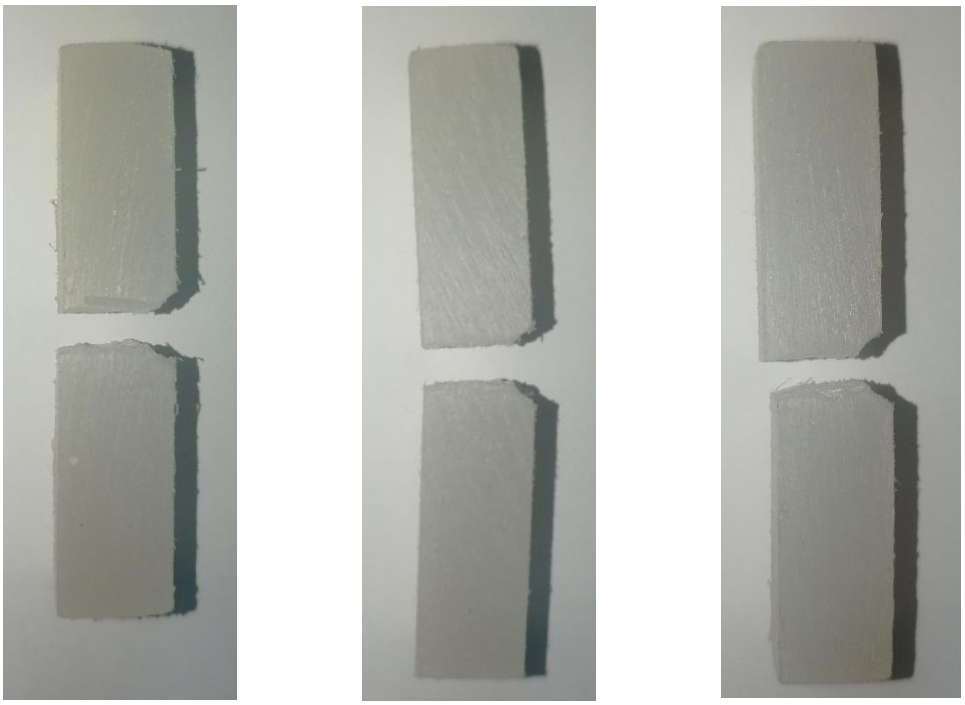
Gambar A.13 Hasil Uji Impact komposit serat sabut kelapa (1,2,3) Temperatur 150°C

(1) (2) (3)

A.14 Hasil Uji Impact komposit serat sabut kelapa (1,2,3) Temperatur 200°C

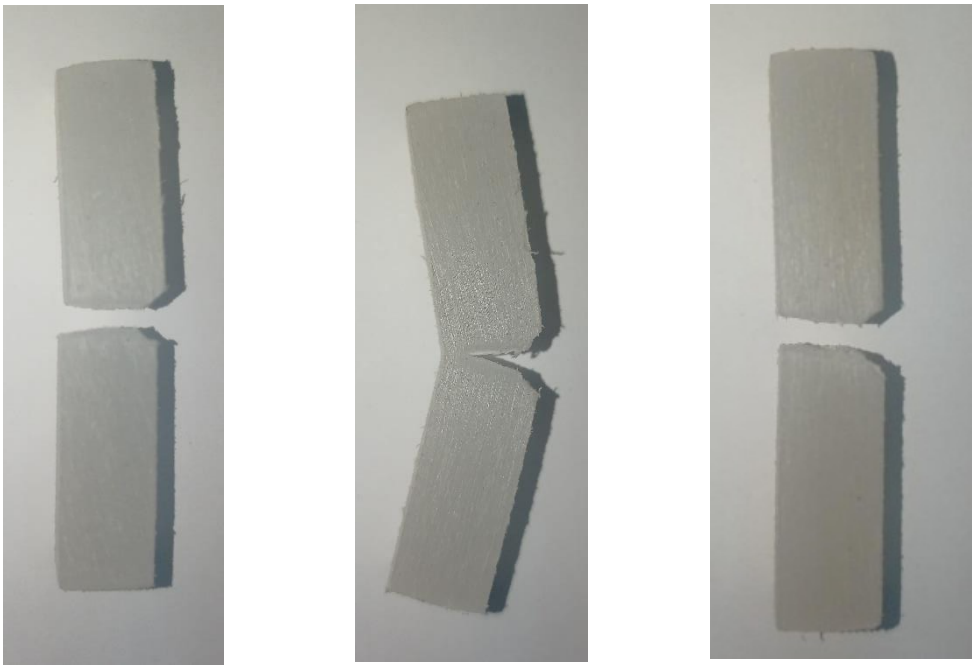
(1) (2) (3)

Gambar A.15 Hasil Uji Impact komposit serat sabut kelapa (1,2,3) Temperatur 250°C



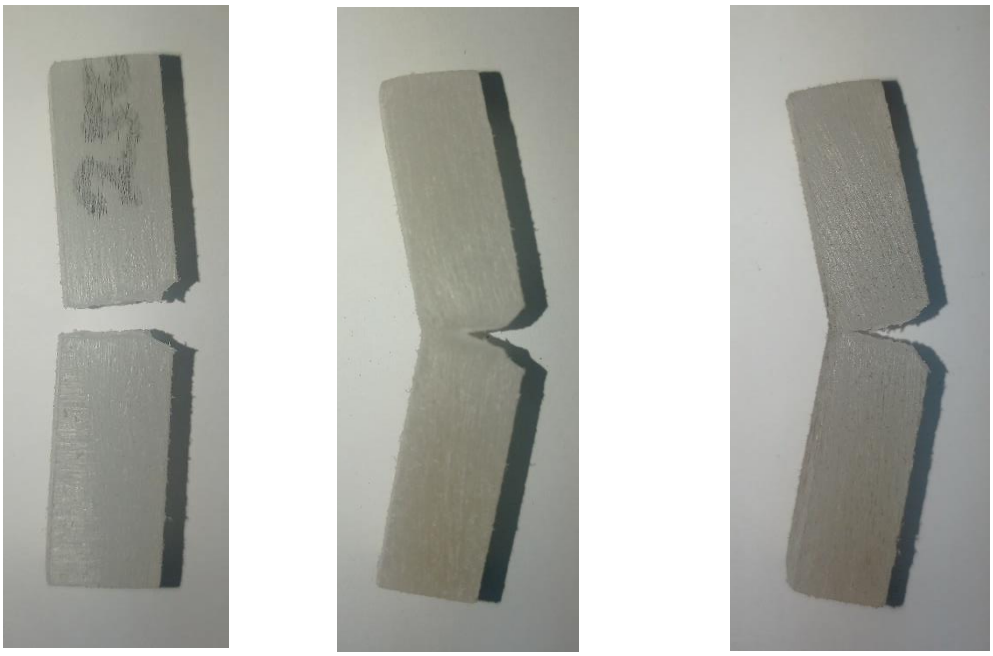
(1) (2) (3)

r A.16 Hasil Uji Impact Based Material Plastik (1,2,3) Temperatur 150°C



(1) (2) (3)

Gambar A.17 Hasil Uji Impact Based Material Plastik (1,2,3) Temperatur 200°C



(1) (2) (3)

Gambar A.18 Hasil Uji Impact Based Material Plastik (1,2,3) Temperatur 250°C

Lampiran 2 Data hasil penelitian

LABORATORIUM METALURGI FISIK

TENSILE KOMPOSIT SERAT SABUT KELAPA

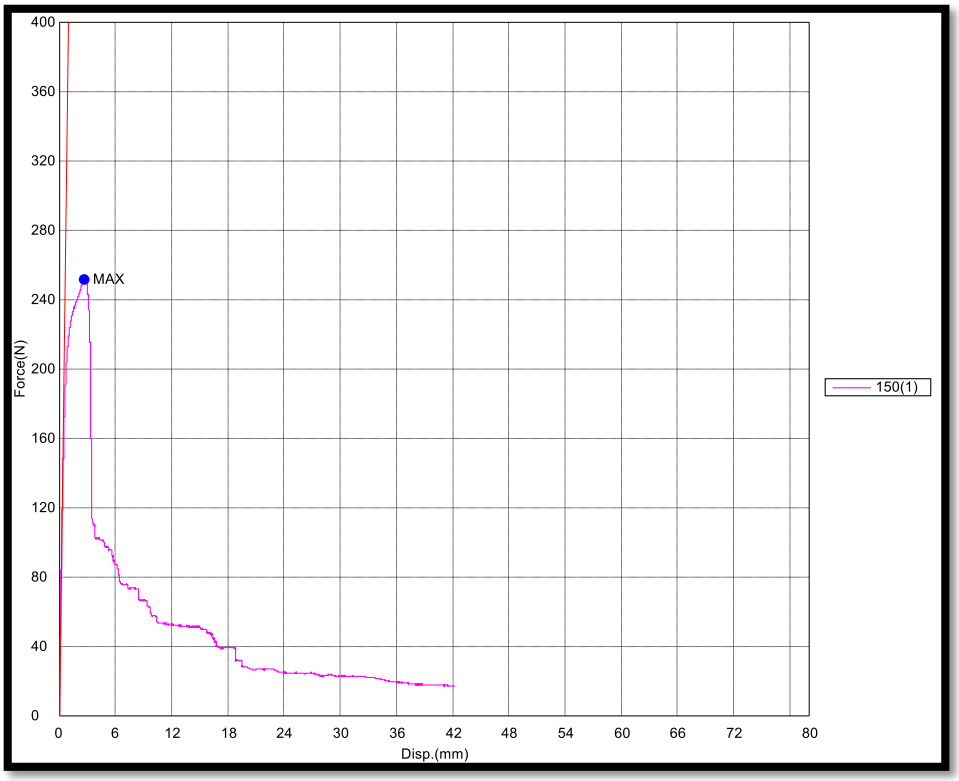
Key Word	KR-T	Product Name	komposit serat sabut kelapa
Test File Name	plastik Serat kelapa.ltax	Method File Name	Tensile komposit SSK
Operator	Edi Iskandar	Report Date	2214/01/02
Test Date	2214/01/01	Temperature	26
Test Type	Tensile	Speed	2mm/min
Shape	Plate	No of Batches:	1
Qty/Batch:	9		

Name	Thickness	Width	Gauge Length
Unit	mm	mm	mm
200(1)	4.0100	3.5600	13.1000
200(2)	3.8700	3.6800	13.1000
200(3)	3.8000	3.4000	13.1000
250(1)	3.9400	3.6600	13.1000
250(2)	4.1900	3.4100	13.1000
150(3)	3.8700	3.7900	13.1000
150(1)	3.7300	3.5900	13.1000
150(2)	4.0000	3.9600	13.1000
250(3)	4.0400	3.8200	13.1000

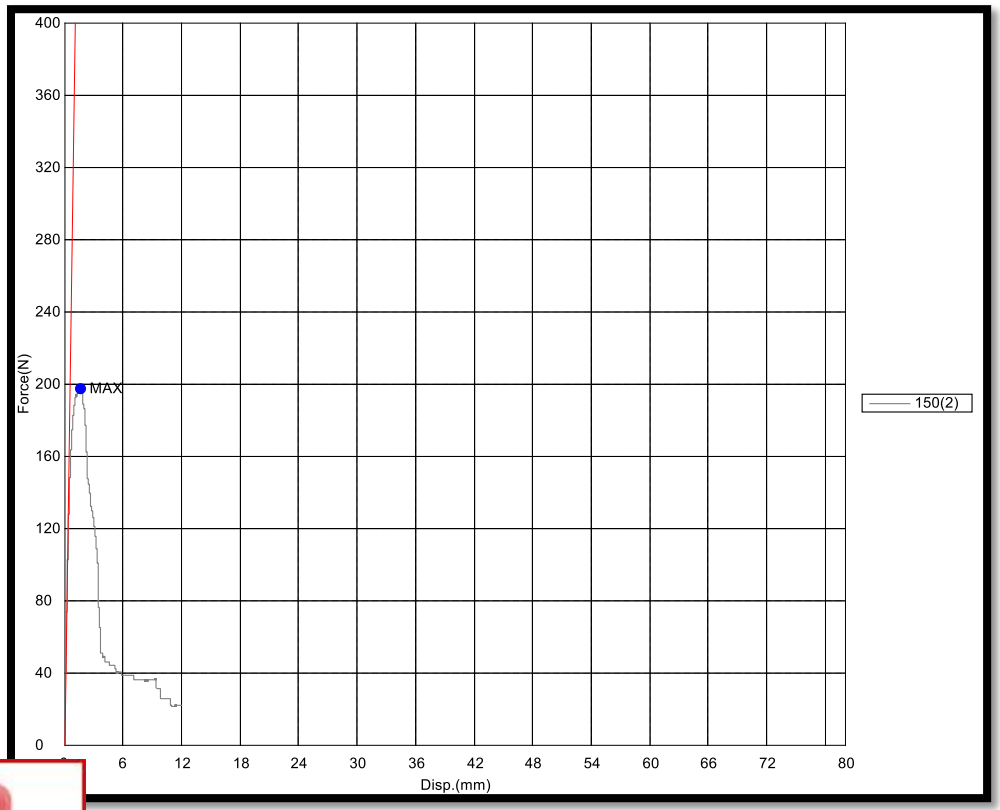
Name	Max Force	Max Disp	Max Strain	Break Force
Parameters	Calc. at Entire Area	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N	mm	%	N
200(1)	161.338	1.20910	9.22977	- -
200(2)	162.253	1.13410	8.65725	- -
200(3)	277.236	2.01043	15.3468	- -
250(1)	158.597	0.90943	6.94224	- -
250(2)	179.380	0.76310	5.82519	- -
150(3)	224.812	1.92343	14.6827	- -
150(1)	251.676	2.69610	20.5809	- -
150(2)	197.318	1.69677	12.9524	- -
250(3)	158.111	0.80810	6.16870	- -

Name	Break Disp	Elastic
Parameters	Sensitivity 10	Force 10 - 20 N
Unit	mm	N/mm2
200(1)	- -	282.692
200(2)	- -	331.088
200(3)	- -	473.284
250(1)	- -	240.446
250(2)	- -	338.900
150(3)	- -	354.579
150(1)	- -	415.668
150(2)	- -	312.282
250(3)	- -	276.624

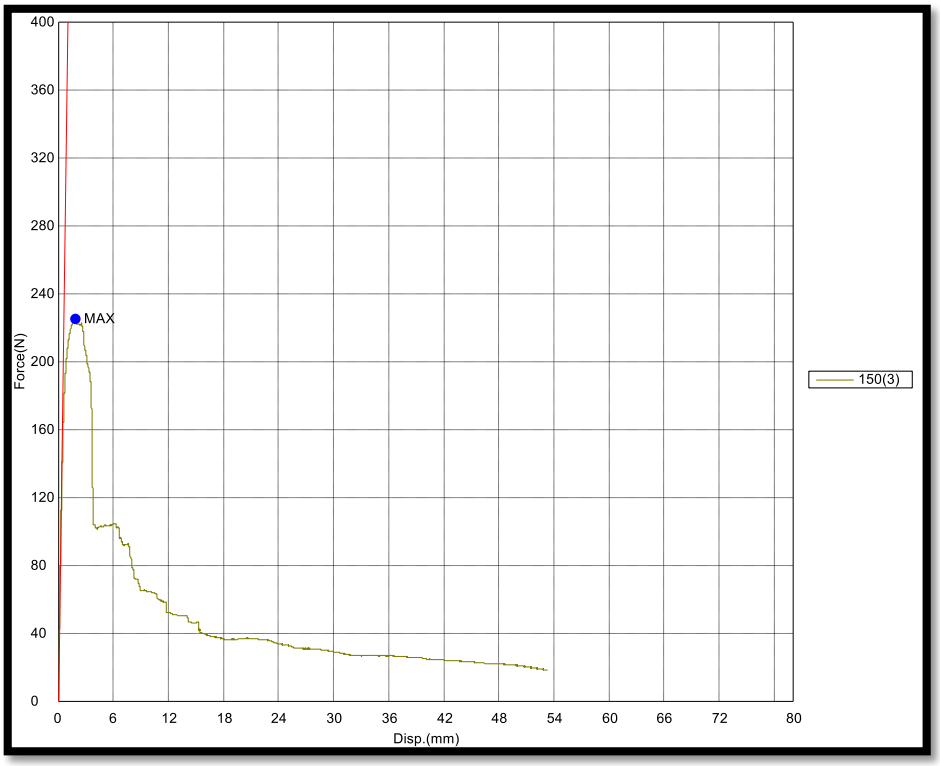
Gambar B. 1 Hasil pengujian tarik komposit serat sabut kealapa



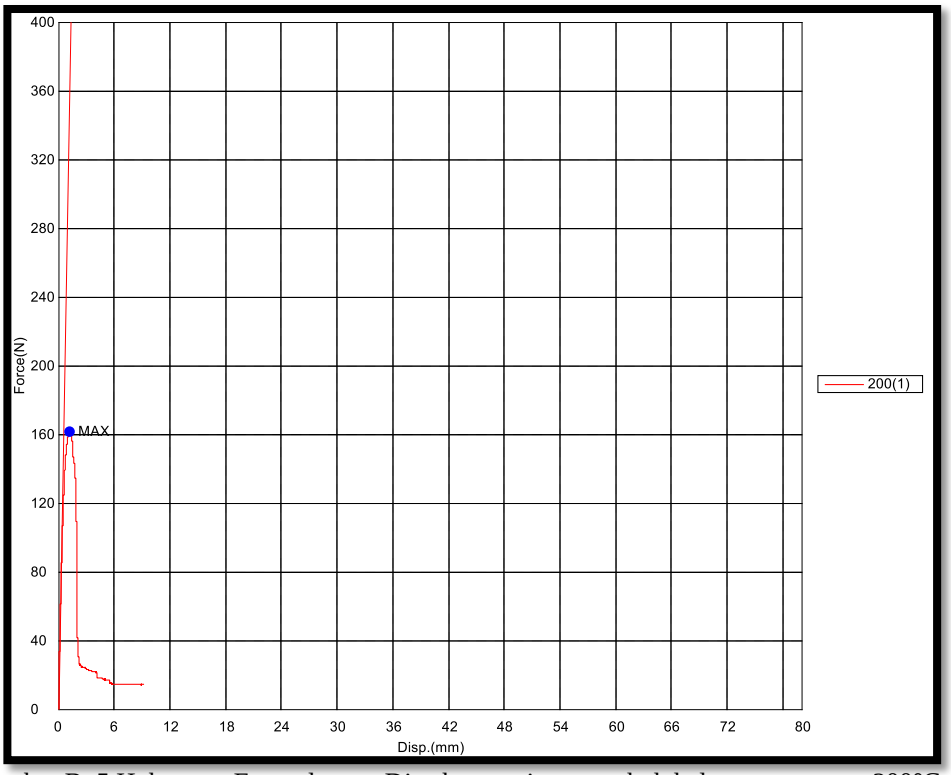
Gambar B. 2 Hubungan Force dengan Disp komposit serat sabuk kelapa temperatur 150°C (1)



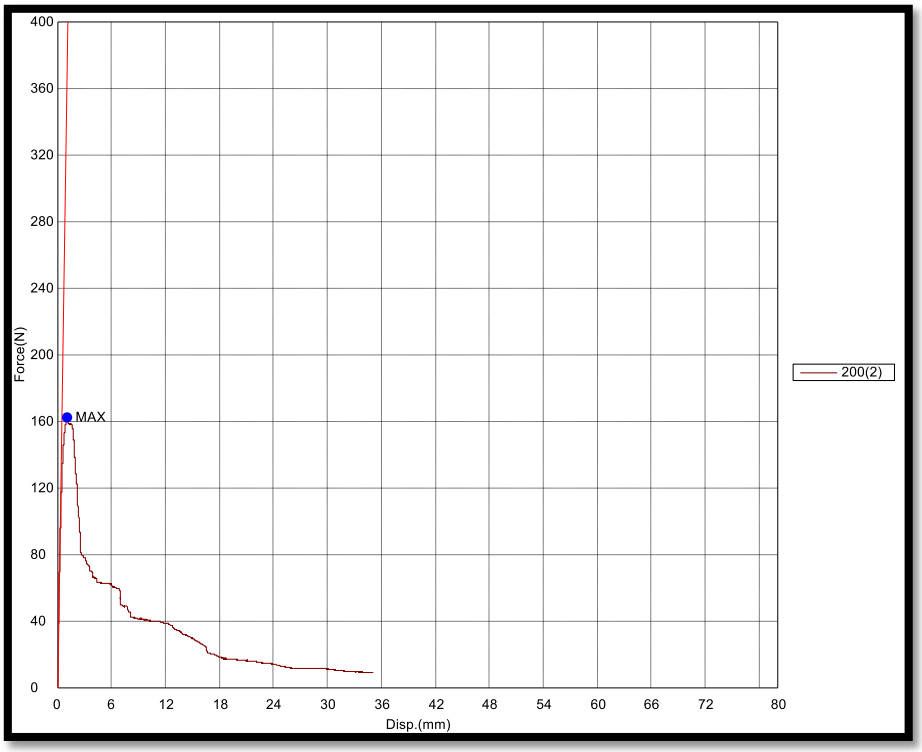
B. 3 Hubungan Force dengan Disp komposit serat sabuk kelapa temperatur 150°C (2)



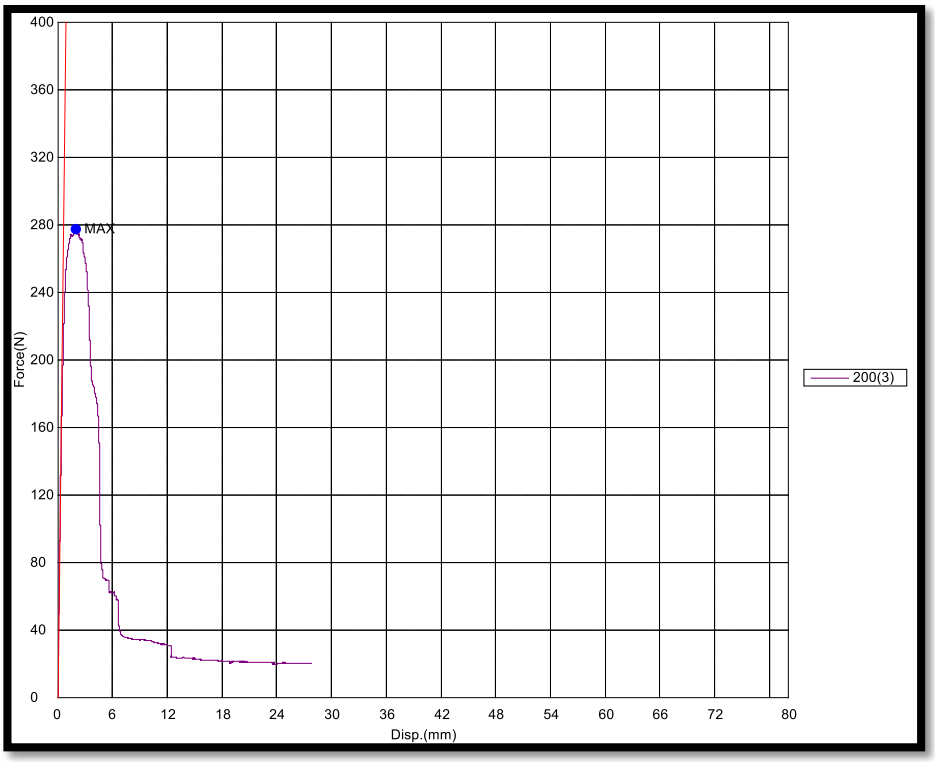
Gambar B. 4 Hubungan Force dengan Disp komposit serat sabuk kelapa temperatur 150°C (3)



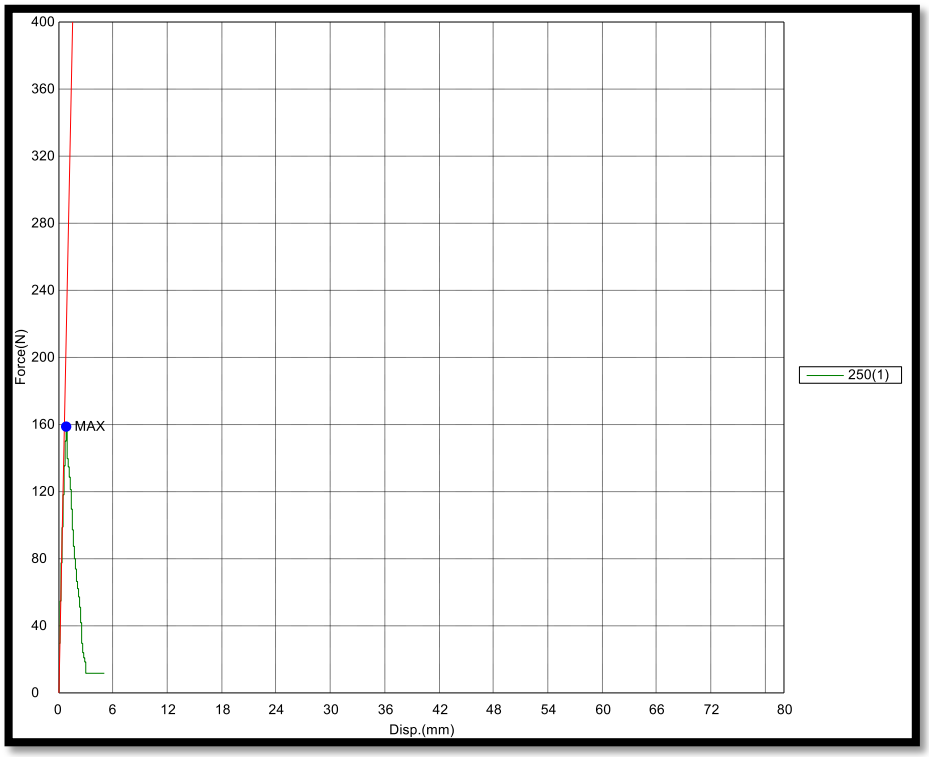
Gambar B. 5 Hubungan Force dengan Disp komposit serat sabuk kelapa temperatur 200°C (1)



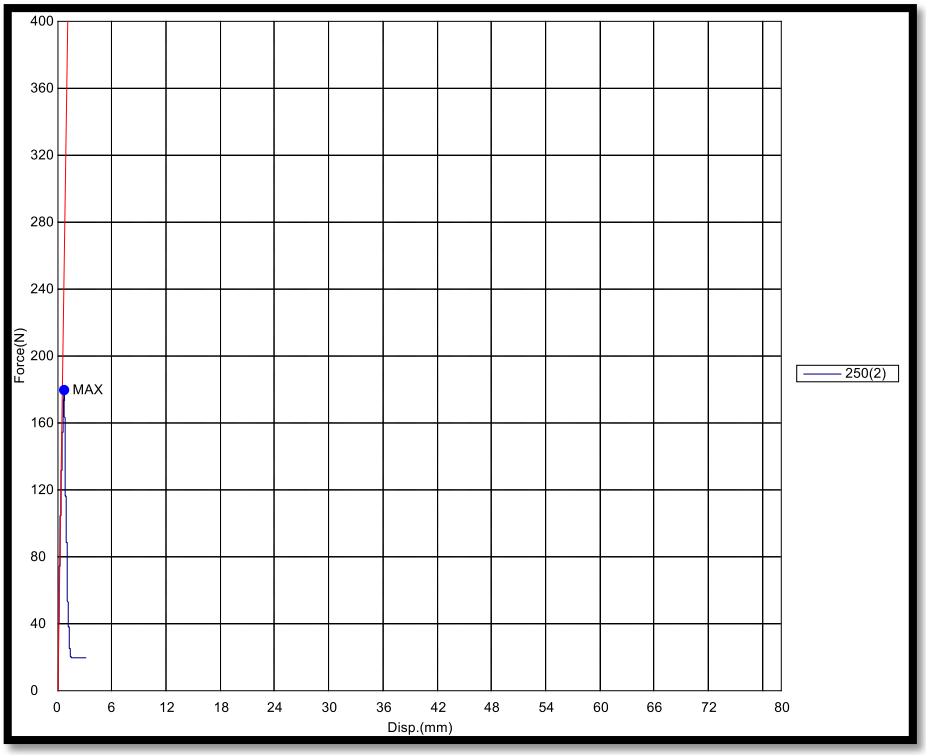
Gambar B. 6 Hubungan Force dengan Disp komposit serat sabuk kelapa temperatur 200°C (2)



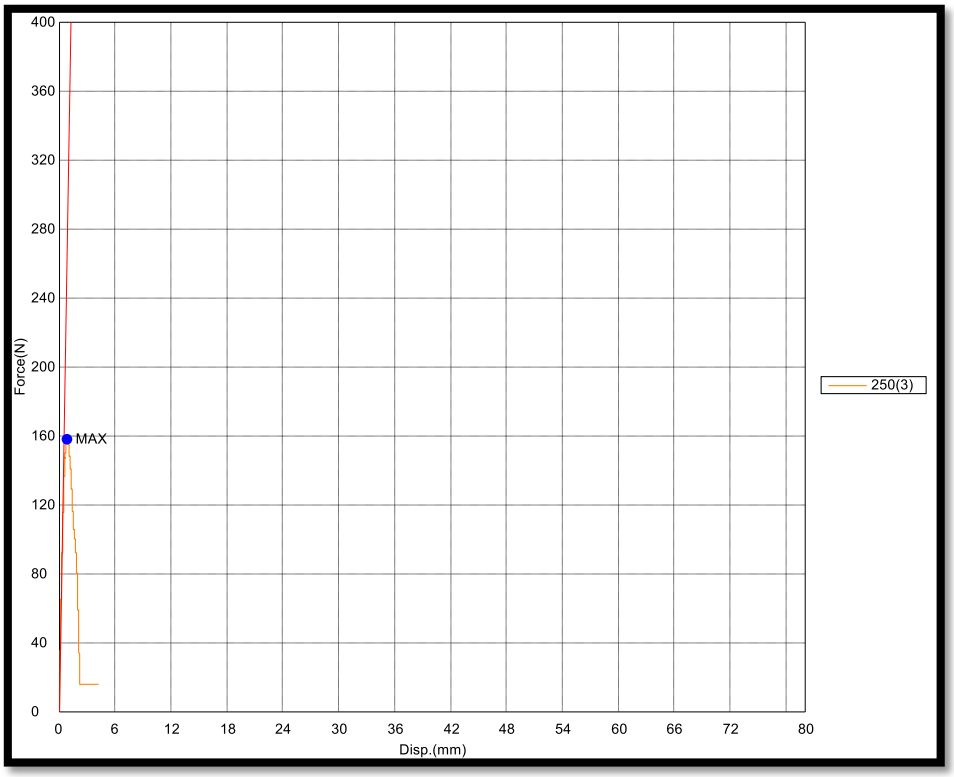
Gambar B. 7 Hubungan Force dengan Disp komposit serat sabuk kelapa temperatur 200°C (3)



Gambar B. 8 Hubungan Force dengan Disp komposit serat sabuk kelapa temperatur 250°C (1)



Gambar B. 9 Hubungan Force dengan Disp komposit serat sabuk kelapa temperatur 250°C (2)



Gambar B. 10 Hubungan Force dengan Disp komposit serat sabuk kelapa temperatur 250°C (3)

LABORATORIUM METALURGI FISIK

TENSILE BASED MATERIAL PLASTIK

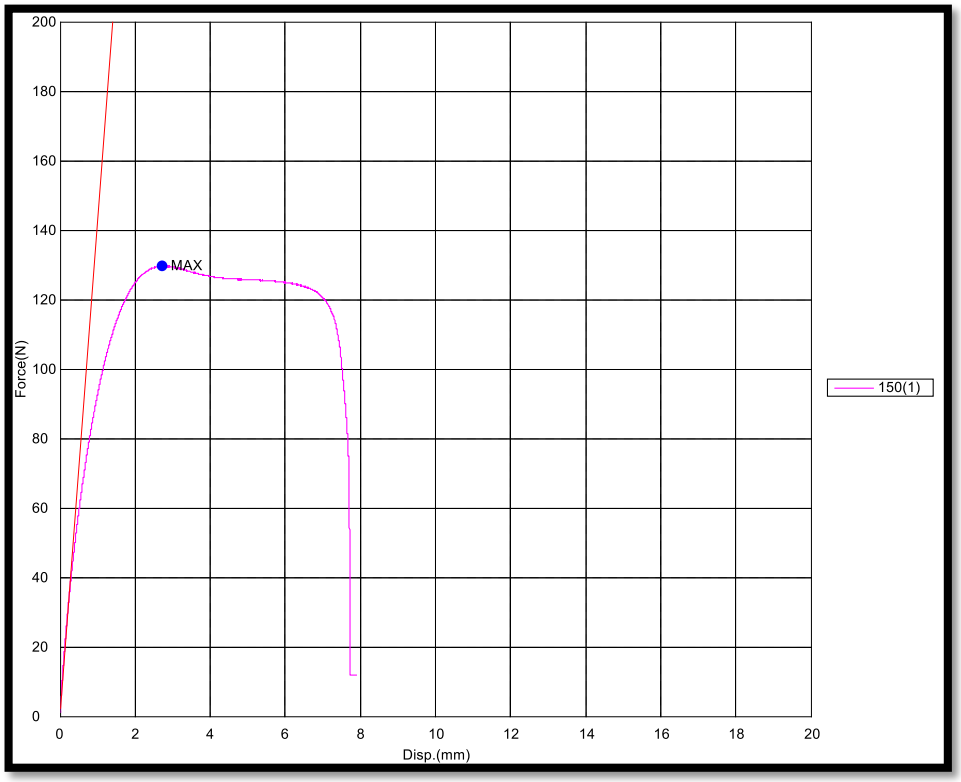
Key Word	KR-T	**Product Name**	based material plastik
Test File Name	plastik.ltax	**Method File Name**	Tensile based material plastik
Operator	Edi Iskandar	**Report Date**	2214/01/02
Test Date	2214/01/01	**Temperature**	26
Test Type	Tensile	**Speed**	2mm/min
Shape	Plate	**No of Batches:**	1
Qty/Batch:	9		

Name	Thickness	Width	Gauge Length
Unit	mm	mm	mm
200(1)	3.9000	3.8100	13.1000
200(2)	3.7400	3.4100	13.1000
200(3)	4.0100	3.8000	13.1000
250(1)	3.8000	3.6000	13.1000
250(2)	3.8800	3.7400	13.1000
250(3)	4.0000	3.8200	13.1000
150(1)	3.8600	3.8200	13.1000
150(2)	3.8900	3.6200	13.1000
150(3)	4.0900	3.5300	13.1000

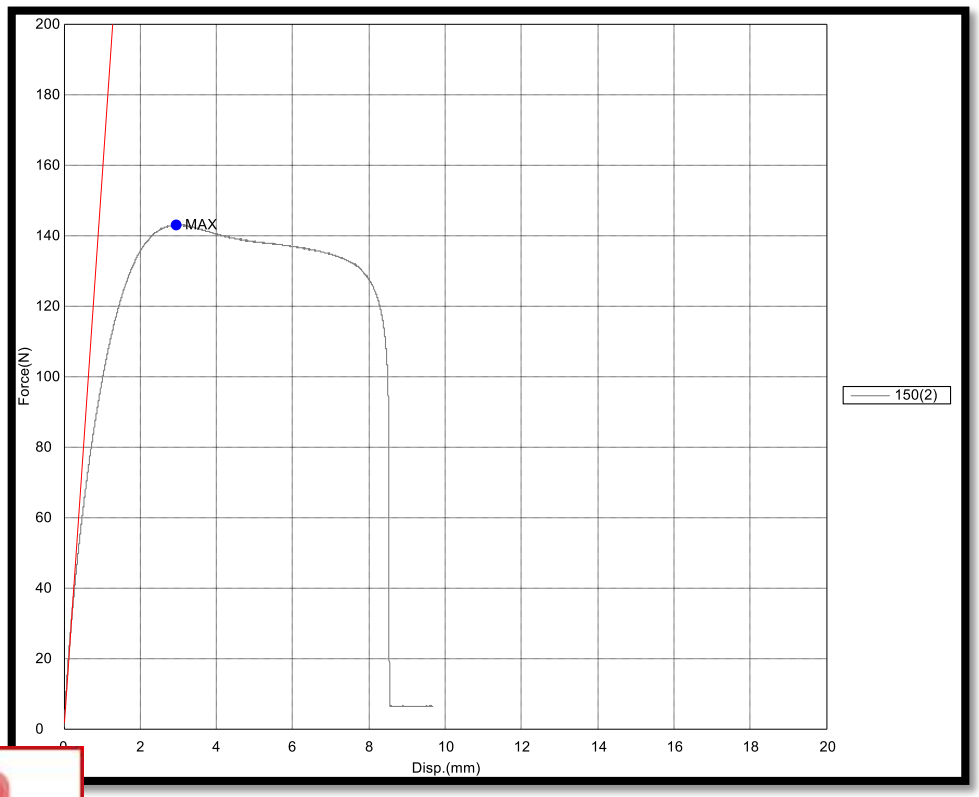
Name	Max Force	Max Disp	Max Strain	Break Force
Parameters	Calc. at Entire Area	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N	mm	%	N
200(1)	140.935	2.75980	21.0672	55.9417
200(2)	140.161	2.60243	19.8659	57.2332
200(3)	132.781	2.28610	17.4511	- -
250(1)	140.421	2.59577	19.8150	- -
250(2)	149.432	2.39940	18.3160	80.4885
250(3)	143.453	2.72577	20.8074	63.9288
150(1)	129.630	2.70977	20.6852	- -
150(2)	142.898	2.94343	22.4690	- -
150(3)	149.776	2.93077	22.3723	80.4377

Name	Break Disp	Elastic
Parameters	Sensitivity 10	Force 10 - 20 N
Unit	mm	N/mm2
200(1)	8.68147	142.205
200(2)	8.26177	176.548
200(3)	- -	147.698
250(1)	- -	161.281
250(2)	5.81340	162.666
250(3)	9.33810	147.892
150(1)	- -	126.462
150(2)	- -	145.700
150(3)	9.78010	157.289

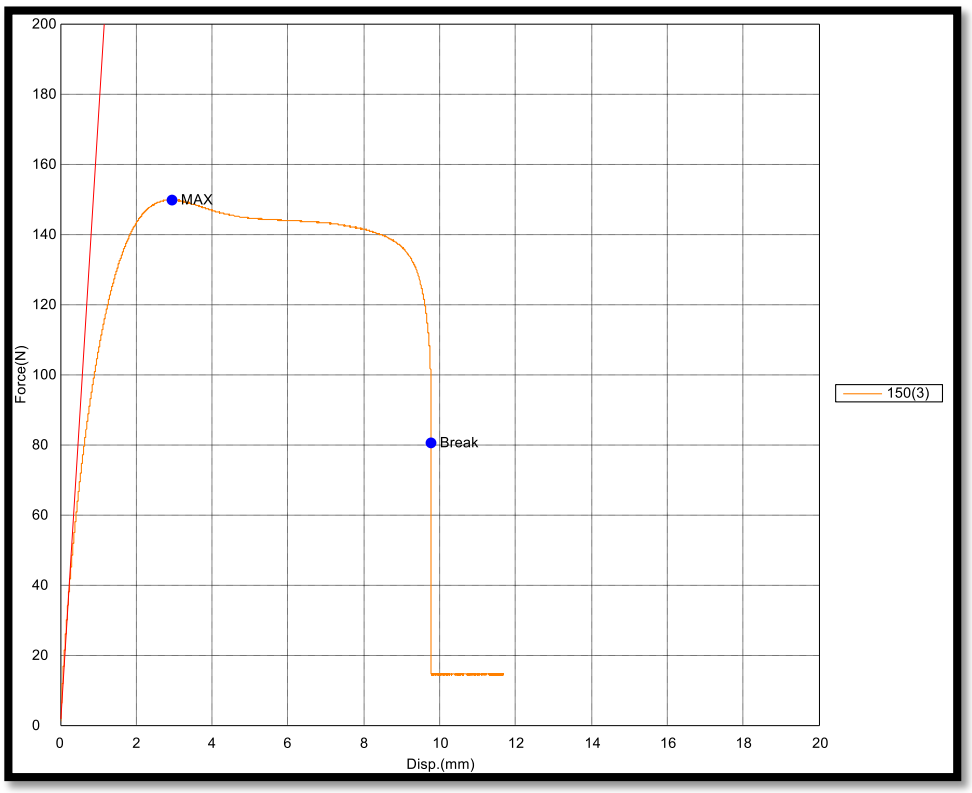
Gambar B. 11 Hasil pengujian tarik based material plastik



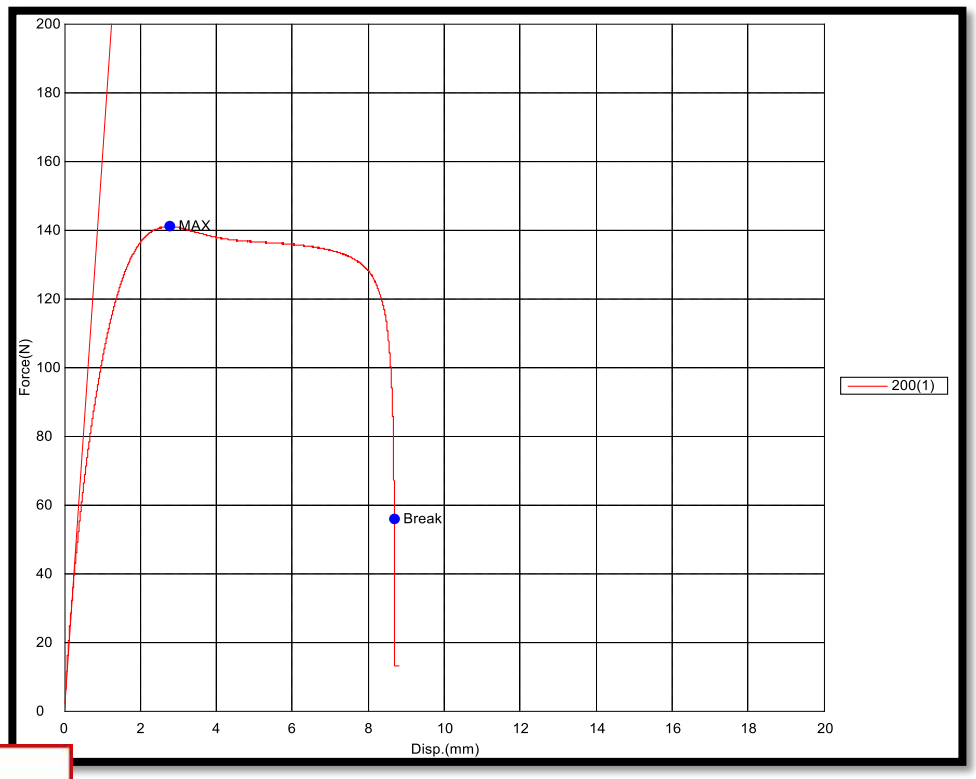
Gambar B. 12 Hubungan Force dengan Disp based material plastik temperatur 150°C (1)



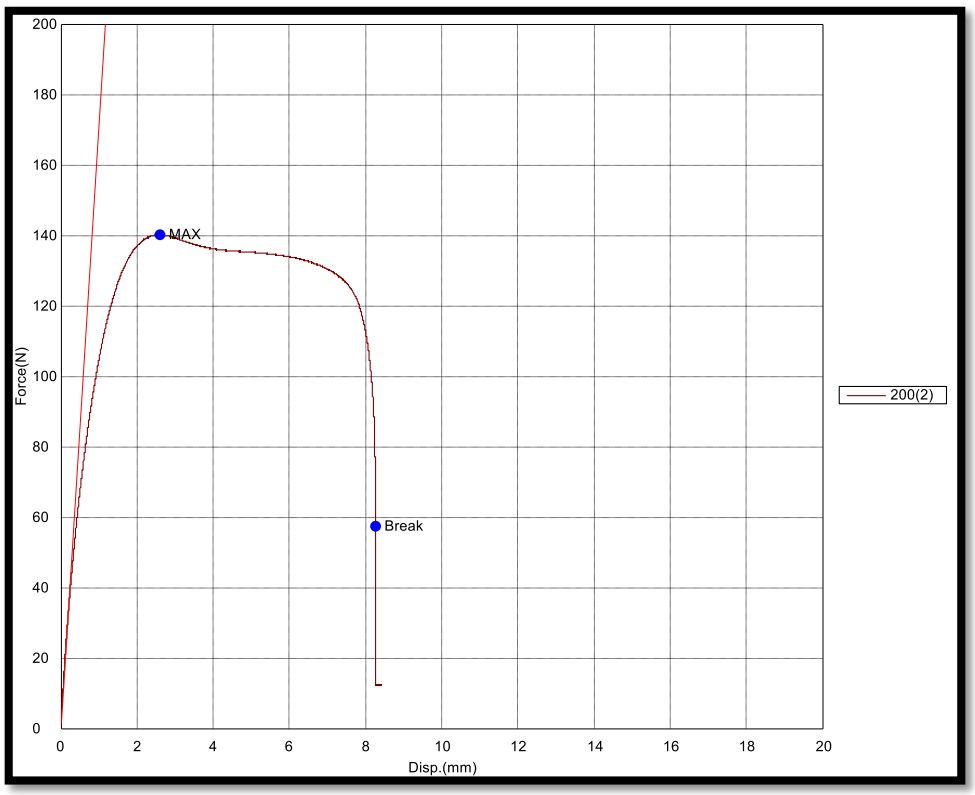
ar B. 13 Hubungan Force dengan Disp based material plastik temperatur 150°C (2)



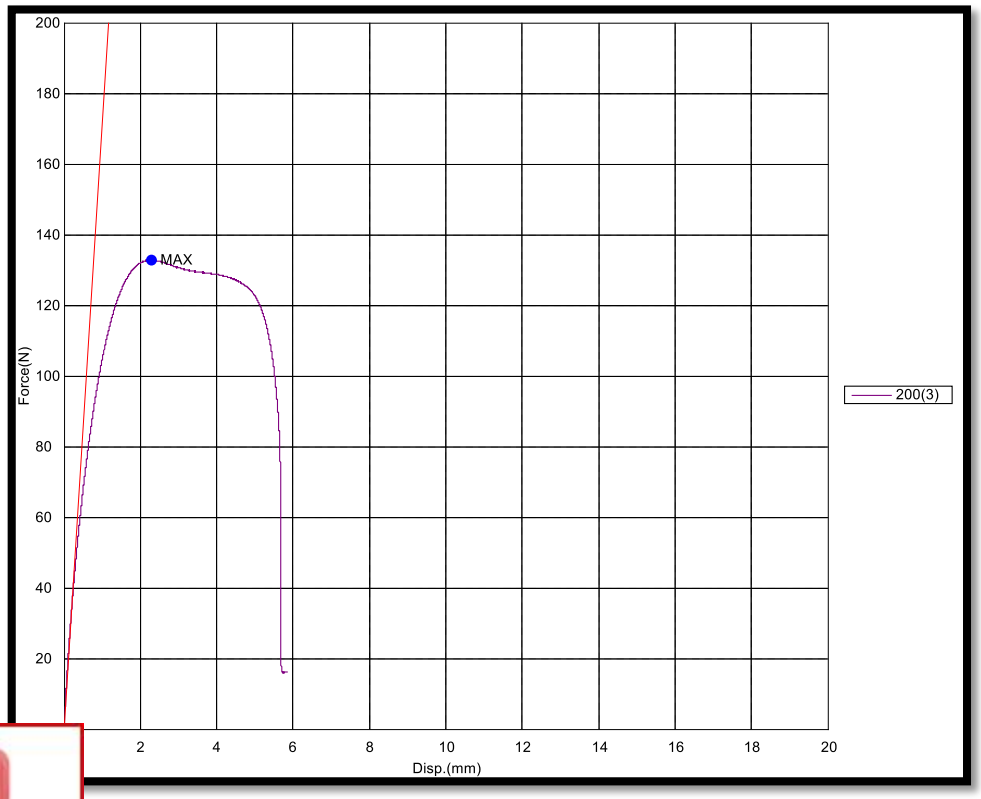
Gambar B. 14 Hubungan Force dengan Disp based material plastik temperatur 150°C (3)



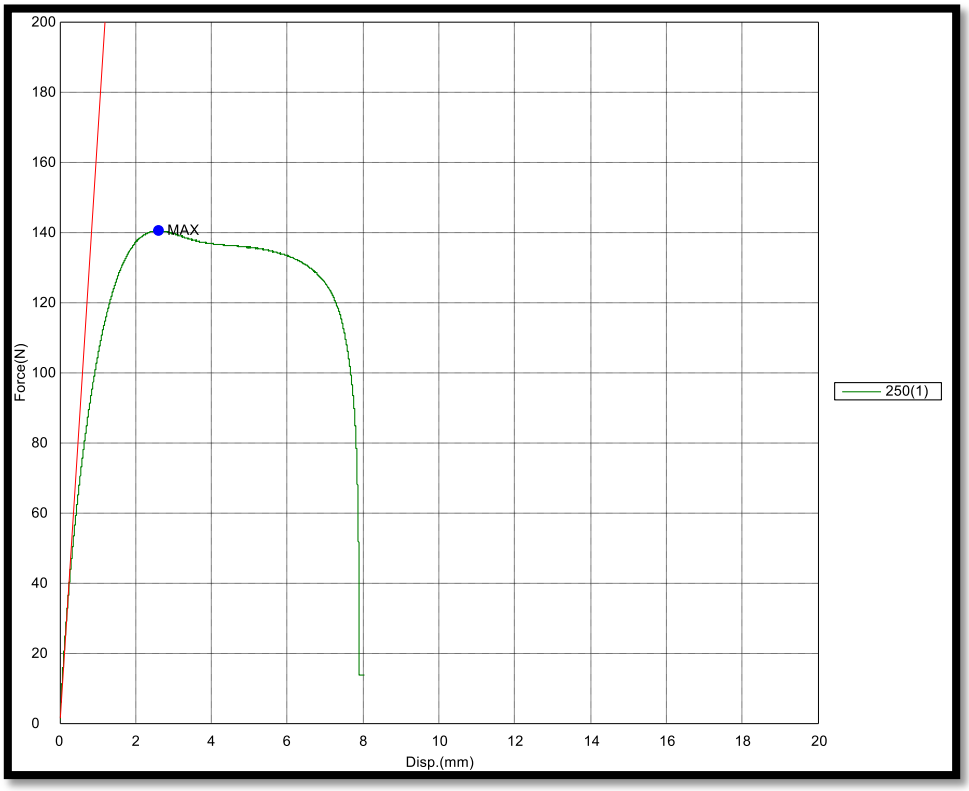
ar B. 15 Hubungan Force dengan Disp based material plastik temperatur 200°C (1)



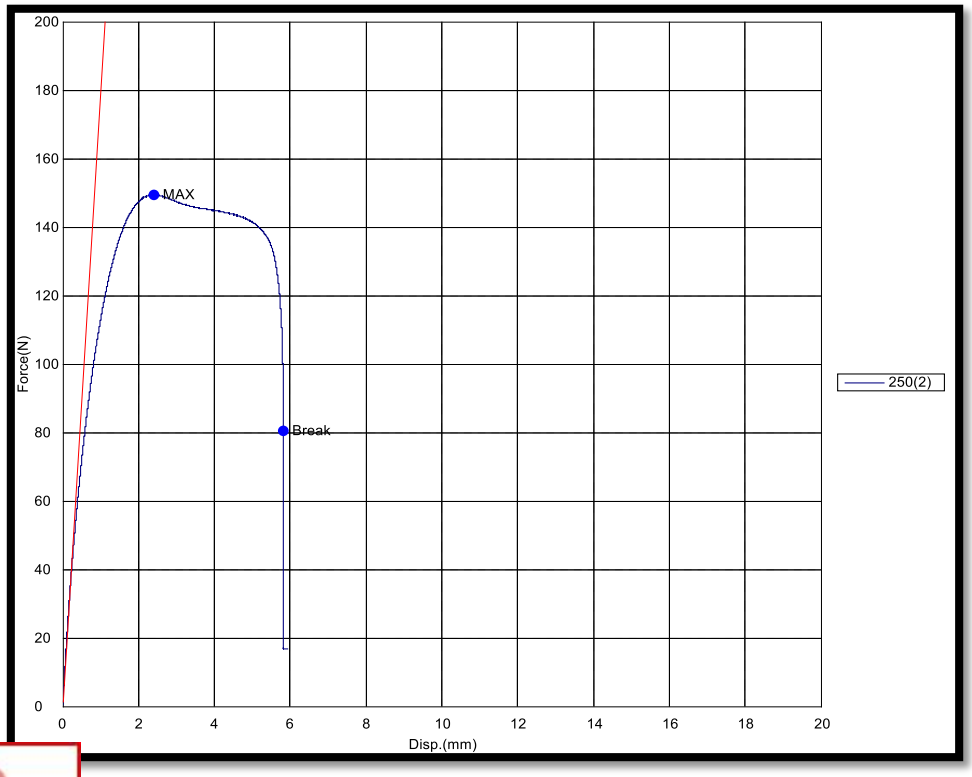
Gambar B. 16 Hubungan Force dengan Disp based material plastik temperatur 200°C (2)



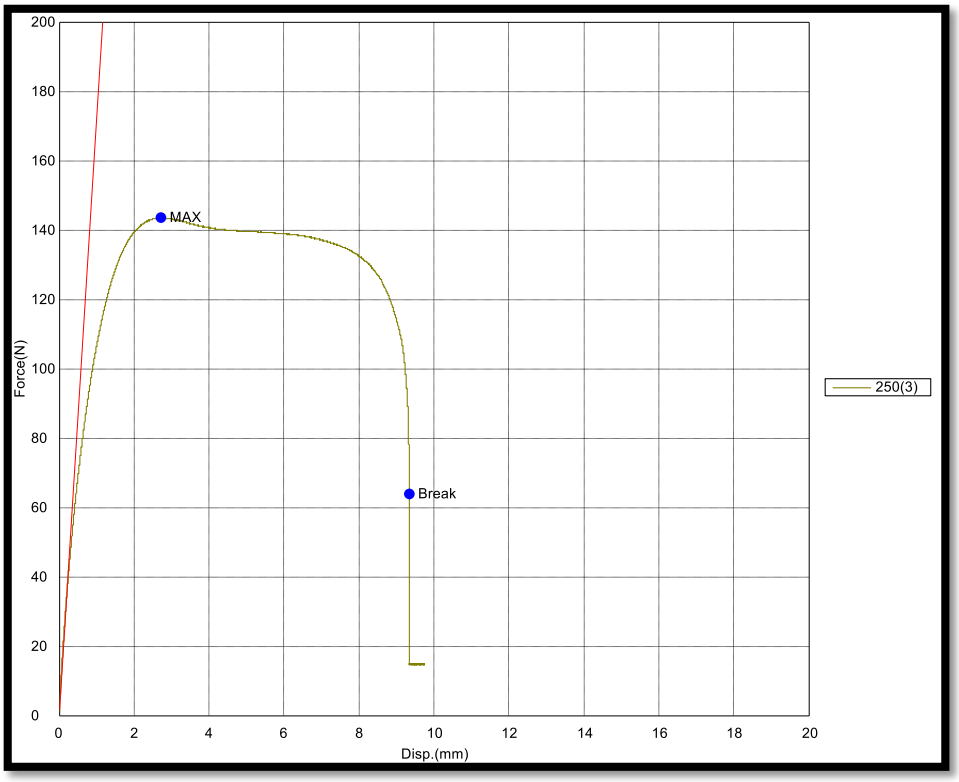
ar B. 17 Hubungan Force dengan Disp based material plastik temperatur 200°C (3)



Gambar B. 18 Hubungan Force dengan Disp based material plastik temperatur 250°C (1)



ar B. 19 Hubungan Force dengan Disp based material plastik temperatur 250°C (2)



Gambar B. 20 Hubungan Force dengan Disp based material plastik temperatur 250°C (3)