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LAMPIRAN

LAMPIRAN 1

TABEL DAN GRAFIK HASIL PENGUJIAN

Tabel A. 1
Hasil Pengujian Tarik (*Tensile*) EVA – STJ

Variasi (%)	Max Force (N)	Panjang (mm)	Lebar (mm)	Tegangan Maks (Mpa)	Rata-rata (Mpa)	Standar Deviasi
0	156,65	50	13,64	0,2296	0,2231	0,0066
	149,16	50	13,35	0,2234		
	151,32	50	13,96	0,2163		
5	71,56	50	13,28	0,1077	0,1053	0,0037
	69,49	50	13,75	0,1010		
	73,88	50	13,78	0,1072		
10	78,34	50	13,51	0,1159	0,1166	0,0018
	79,23	50	13,76	0,1151		
	80,79	50	13,61	0,1187		
15	89,67	50	13,56	0,1322	0,1247	0,0067
	82,11	50	13,79	0,1190		
	82,03	50	13,36	0,1227		
20	86,76	50	13,59	0,1276	0,1261	0,0013
	83,31	50	13,33	0,1249		
	85,1	50	13,52	0,1258		

METALURGI FISIK

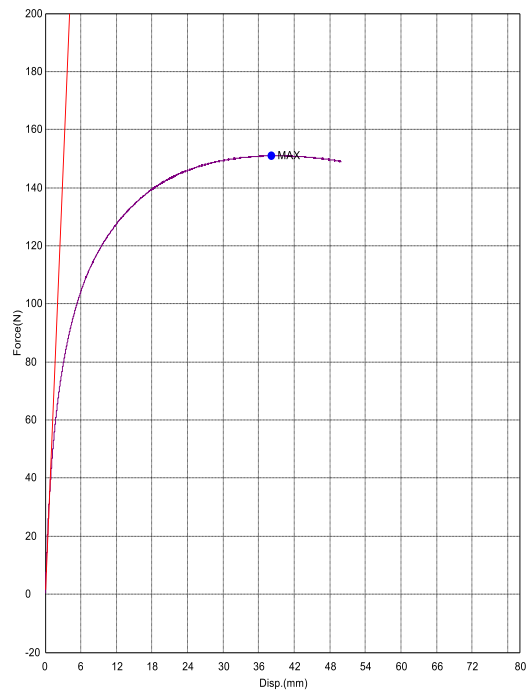
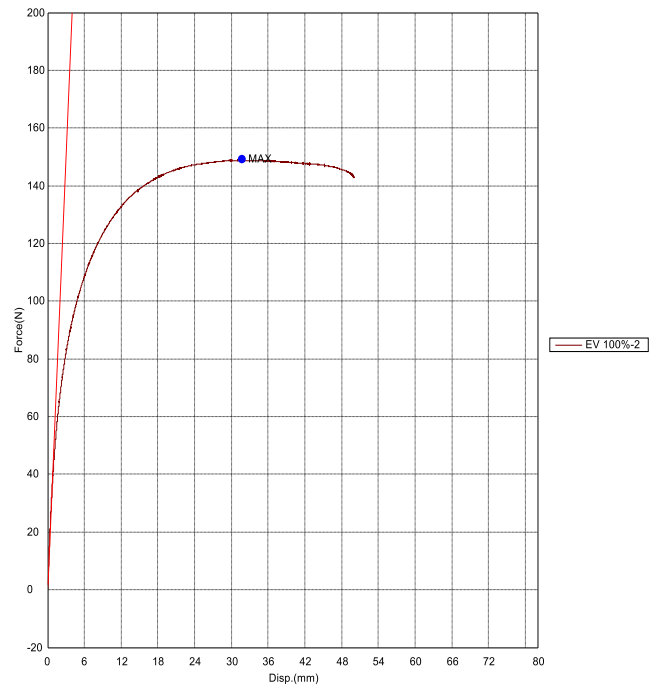
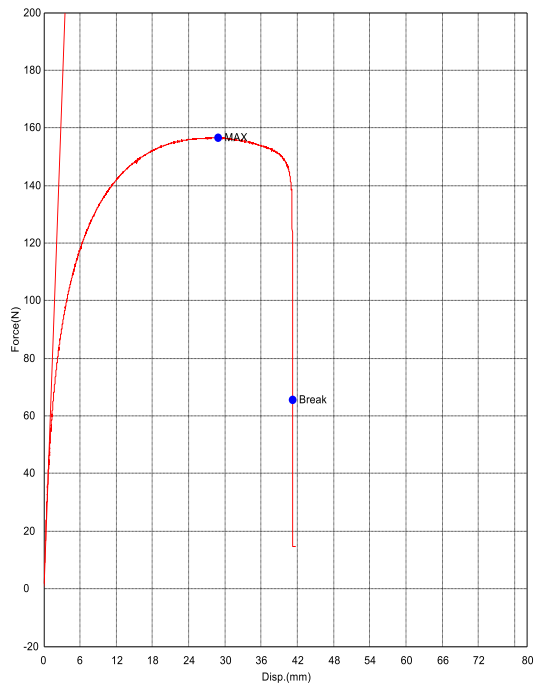
TENSILE KOMPOSIT TONGKOL JAGUNG

Key Word	EVA+STJ	Product Name	EVA + STJ(0%)	
Test File Name	EVA+STJ (0%).ltax	Method File Name	TENSILE KOMPOSIT.lma	
Report Date	26/04/22	Test Date	31/03/22	
Test Type	Tensile	Speed	5mm/min	
Shape	Plate	No of Batches:	1	
Qty/Batch:	3			

Name	Thickness	Width	Gauge_Length	
Unit	mm	mm	mm	
EVA - STJ 0%-1	5,9300	13,6400	50,0000	
EVA - STJ 0%-2	6,0900	13,3500	50,0000	
EVA - STJ 0%-3	5,4100	13,9600	50,0000	

Name	Elastic	Max_Force	Max_Displacement	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm2	N	mm	N
EVA - STJ 0%-1	35,5699	156,654	28,9037	65,6859
EVA - STJ 0%-2	31,0276	149,167	31,7104	.-
EVA - STJ 0%-3	32,5046	151,008	38,1844	.-

Name	Break_Displacement
Parameters	Sensitivity 10
Unit	mm
EVA - STJ 0%-1	41,23
EVA - STJ 0%-2	50,13
EVA - STJ 0%-3	51,61



METALURGI FISIK

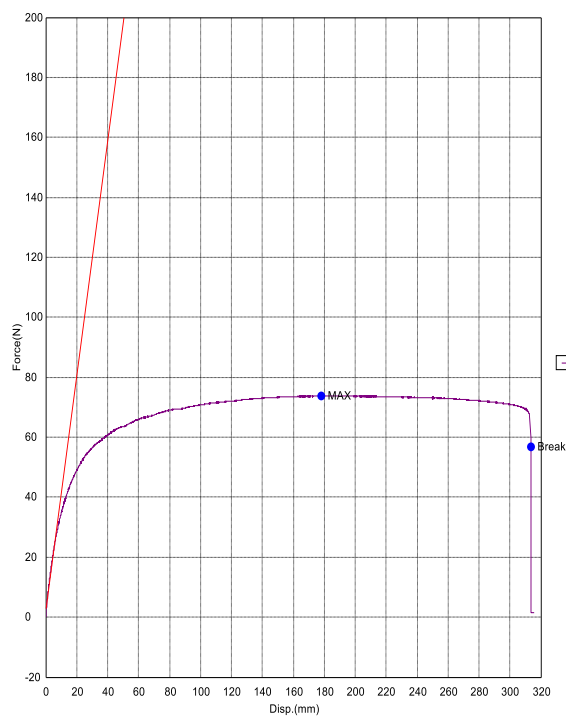
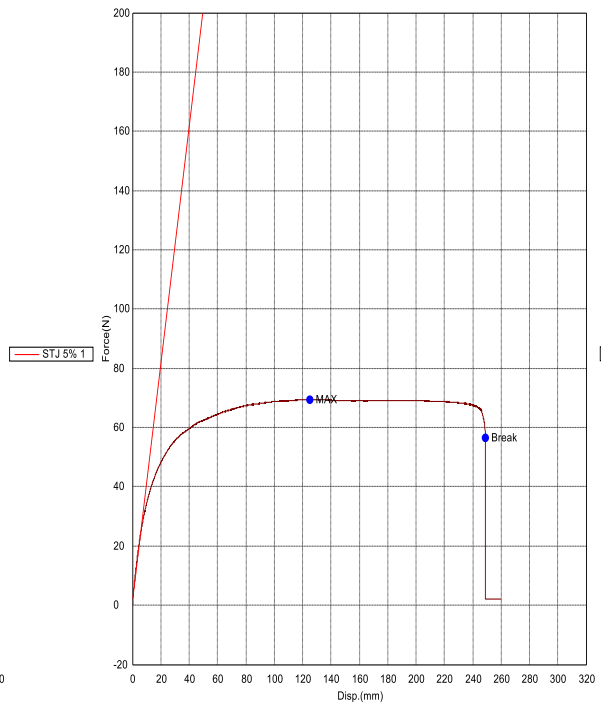
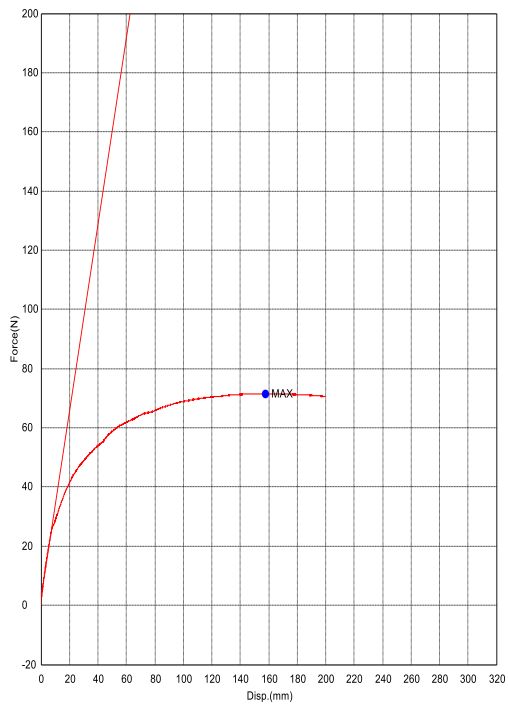
TENSILE KOMPOSIT TONGKOL JAGUNG

Key Word	EVA + STJ	Product Name	EVA + STJ 5%	
Test File Name	EVA + STJ 5%.ltax	Method File Name	TENSILE KOMPOSIT.lma	
Report Date	26/04/22	Test Date	20/04/22	
Test Type	Tensile	Speed	15mm/min	
Shape	Plate	No of Batches:	1	
Qty/Batch:	3			

Name	Thickness	Width	Gauge_Length	
Unit	mm	mm	mm	
EVA - STJ 5% 1	6,6200	14,2800	50,0000	
EVA - STJ 5% 2	6,1000	13,7500	50,0000	
EVA - STJ 5% 3	6,4900	13,7800	50,0000	

Name	Elastic	Max_Force	Max_Displ.	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm2	N	mm	N
EVA - STJ 5% 1	1,66982	71,5605	157,532	.-
EVA - STJ 5% 2	2,38850	69,4911	124,985	56,4535
EVA - STJ 5% 3	2,18987	73,8875	177,908	56,9224

Name	Break_Displ.
Parameters	Sensitivity 10
Unit	Mm
EVA - STJ 5% 1	200,321
EVA - STJ 5% 2	283,812
EVA - STJ 5% 3	313,465



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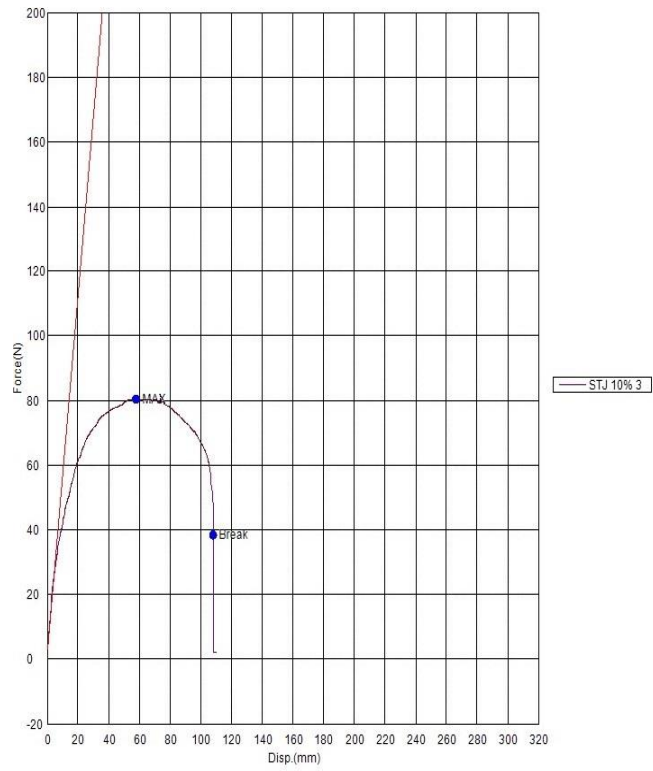
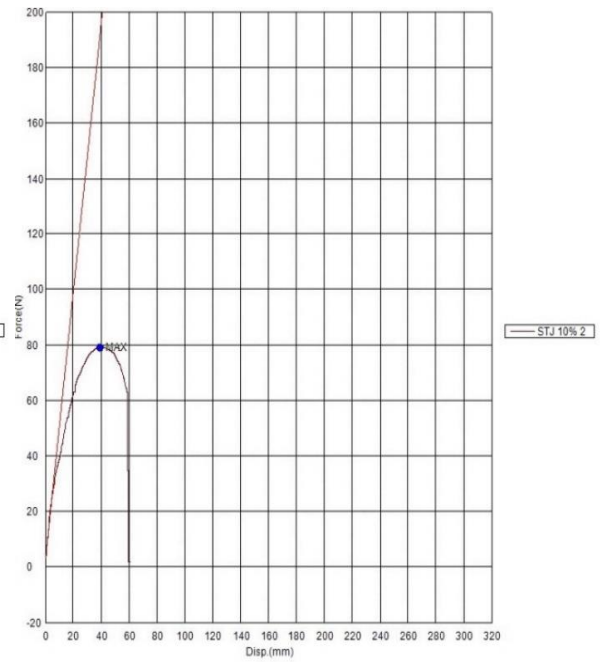
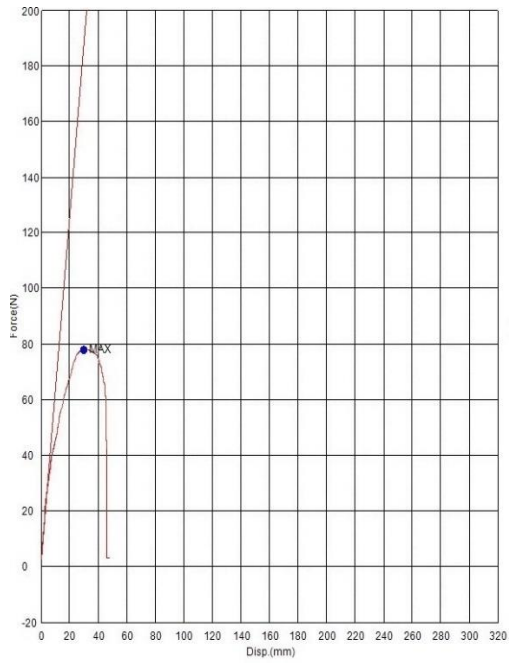
TENSILE KOMPOSIT TONGKOL JAGUNG

Key Word	EVA - STJ	Product Name	EVA – STJ 10%	
Test File Name	EVA - STJ 10%.ltax	Method File Name	TENSILE KOMPOSIT.lma	
Report Date	26/04/22	Test Date	20/04/22	
Test Type	Tensile	Speed	15mm/min	
Shape	Plate	No of Batches:	1	
Qty/Batch:	3			

Name	Thickness	Width	Gauge_Length	
Unit	mm	mm	mm	
EVA - STJ 10% 1	6,5300	14,5100	50,0000	
EVA - STJ 10% 2	6,1300	13,7600	50,0000	
EVA - STJ 10% 3	6,0700	14,6100	50,0000	

Name	Elastic	Max_Force	Max_Displacement	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm²	N	mm	N
EVA - STJ 10% 1	3,28621	78,3415	28,1304	--
EVA - STJ 10% 2	2,86777	79,2090	46,5204	--
EVA - STJ 10% 3	3,12277	80,7906	64,3979	38,3019

Name	Break_Displacement
Parameters	Sensitivity 10
Unit	Mm
EVA - STJ 10% 1	48,31
EVA - STJ 10% 2	60,18
EVA - STJ 10% 3	108,208



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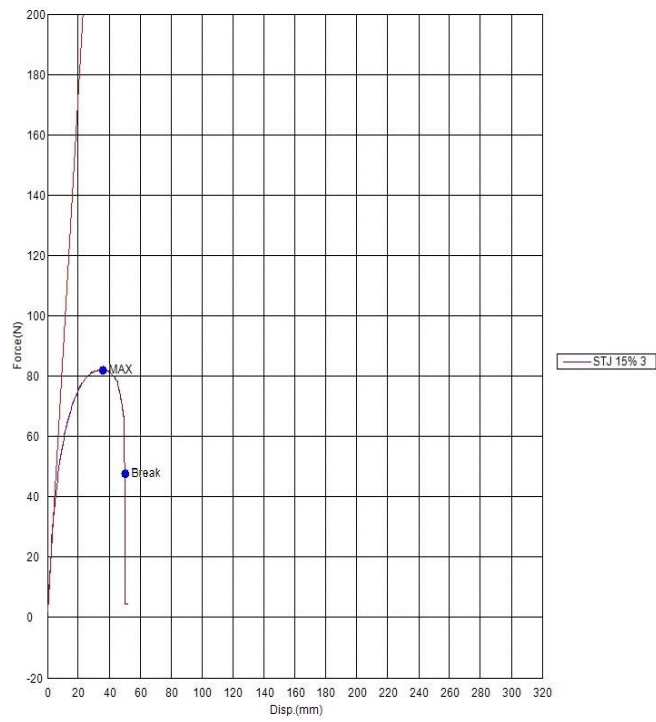
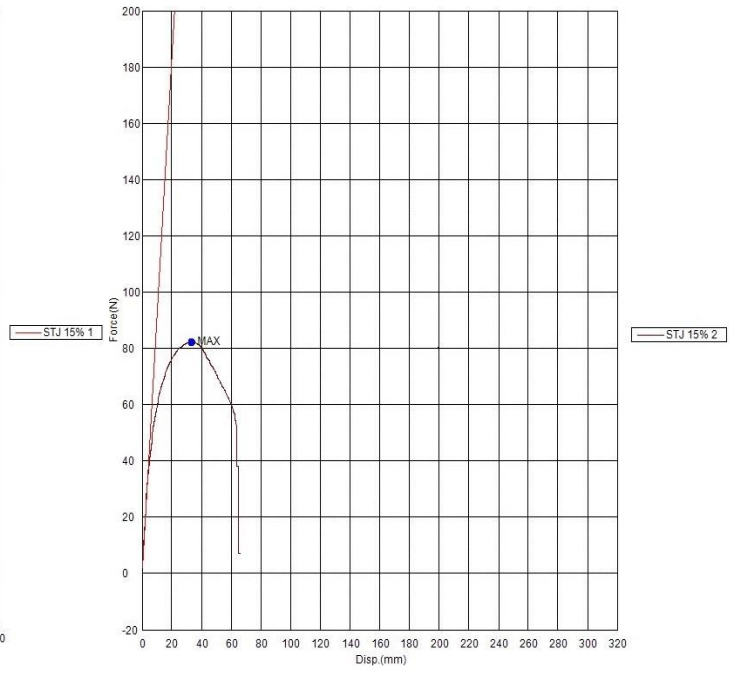
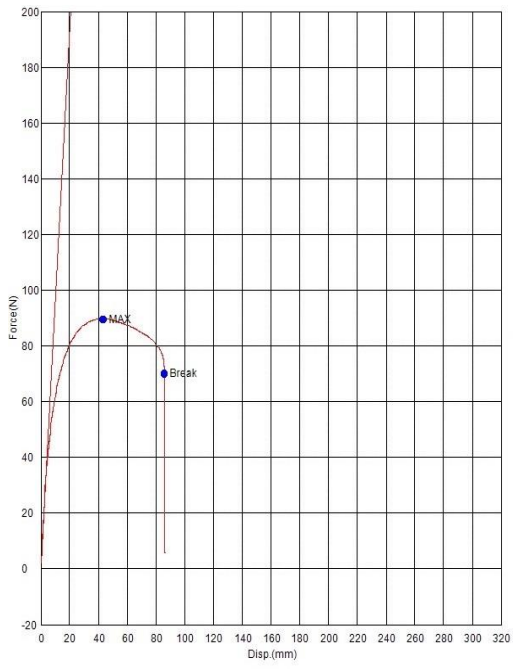
TENSILE KOMPOSIT TONGKOL JAGUNG

Key Word	EVA - STJ	Product Name	EVA – STJ 15%	
Test File Name	EVA - STJ 15%.ltax	Method File Name	TENSILE KOMPOSIT.lma	
Report Date	26/04/22	Test Date	20/04/22	
Test Type	Tensile	Speed	15mm/min	
Shape	Plate	No of Batches:	1	
Qty/Batch:	3			

Name	Thickness	Width	Gauge_Length	
Unit	mm	mm	mm	
EVA - STJ 15% 1	6,6100	14,5600	50,0000	
EVA - STJ 15% 2	6,4000	14,7900	50,0000	
EVA - STJ 15% 3	6,3100	15,3600	50,0000	

Name	Elastic	Max_Force	Max_Displacement	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm2	N	mm	N
EVA - STJ 15% 1	5,03985	89,6780	43,0929	66,7270
EVA - STJ 15% 2	4,85904	82,1185	33,1179	.-.
EVA - STJ 15% 3	4,50132	82,0390	36,0954	38,7756

Name	Break_Displacement
Parameters	Sensitivity 10
Unit	mm
EVA - STJ 15% 1	83,17
EVA - STJ 15% 2	63,86
EVA - STJ 15% 3	55,26



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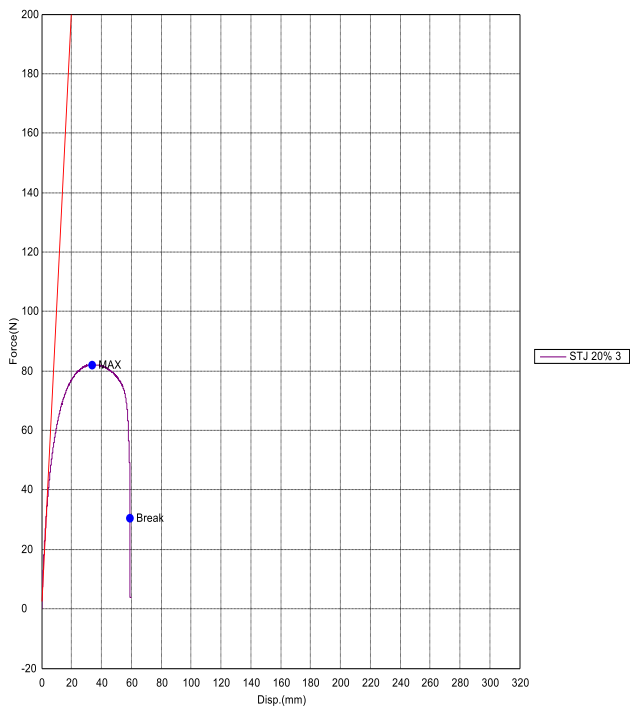
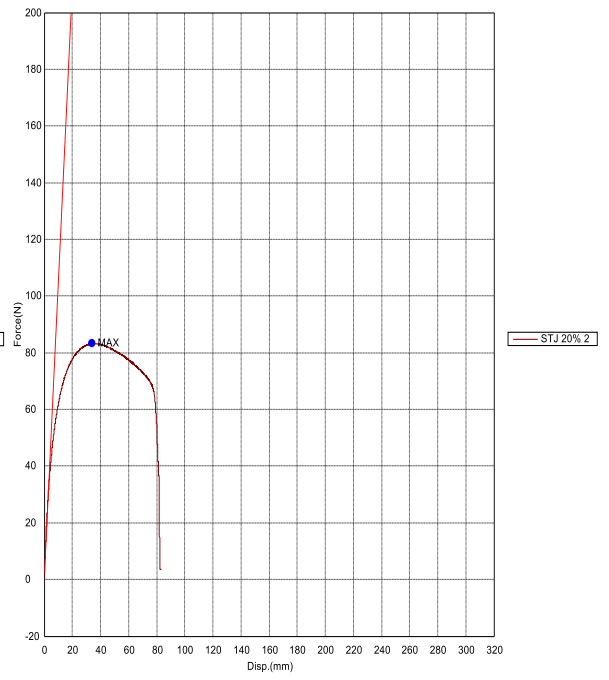
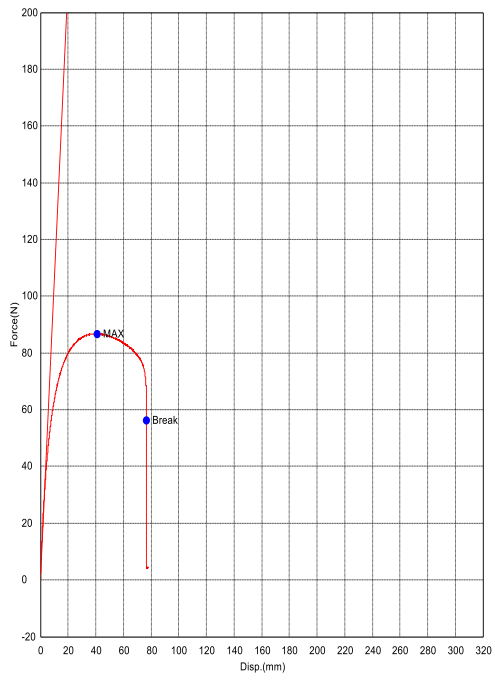
TENSILE KOMPOSIT TONGKOL JAGUNG

Key Word	EVA - STJ	Product Name	EVA – STJ 20%	
Test File Name	EVA - STJ 20%.ltax	Method File Name	TENSILE KOMPOSIT.lma	
Report Date	26/04/22	Test Date	20/04/22	
Test Type	Tensile	Speed	15mm/min	
Shape	Plate	No of Batches:	1	
Qty/Batch:	3			

Name	Thickness	Width	Gauge_Length	
Unit	Mm	mm	mm	
EVA - STJ 20% 1	6,7100	15,5900	50,0000	
EVA - STJ 20% 2	6,3500	15,3300	50,0000	
EVA - STJ 20% 3	6,3000	15,5200	50,0000	

Name	Elastic	Max_Force	Max_Displ.	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm2	N	mm	N
EVA - STJ 20% 1	5,04671	86,7677	41,0354	56,2898
EVA - STJ 20% 2	5,37903	83,3122	33,9029	.-
EVA - STJ 20% 3	5,15566	85,1002	33,6154	30,4953

Name	Break_Displ.
Parameters	Sensitivity 10
Unit	mm
EVA - STJ 20% 1	76,77
EVA - STJ 20% 2	81,23
EVA - STJ 20% 3	59,17



Tabel A. 2
 Hasil Pengujian Tekuk (*Bending*) EVA – STJ

Variasi (%)	Max Force (N)	Jarak Tumpuan (mm)	Lebar (mm)	Tebal (mm)	Kekuatan Bending (MPa)	Rata-Rata (MPa)	Standar Deviasi
0	14,52	34	11,6	3,2	6,2341	5,0632	1,0355
	12,48	34	12,9	3,4	4,2681		
	14,77	34	12,4	3,6	4,6873		
5	3,31	34	13,3	3,6	0,9793	1,0649	0,0956
	3,76	34	13,4	3,5	1,1681		
	3,38	34	12,7	3,6	1,0473		
10	3,96	34	12,7	3,4	1,3756	1,2847	0,1445
	3,58	34	12,6	3,6	1,1180		
	4,46	34	12,9	3,6	1,3605		
15	4,48	34	12,3	3,5	1,4892	1,8639	0,4826
	4,63	34	12,8	3,3	1,6939		
	8,62	34	12	3,9	2,4086		
20	5,92	34	13,1	3,4	1,9937	1,9854	0,0413
	6,72	34	12,9	3,7	1,9406		
	5,57	34	12,9	3,3	2,0221		

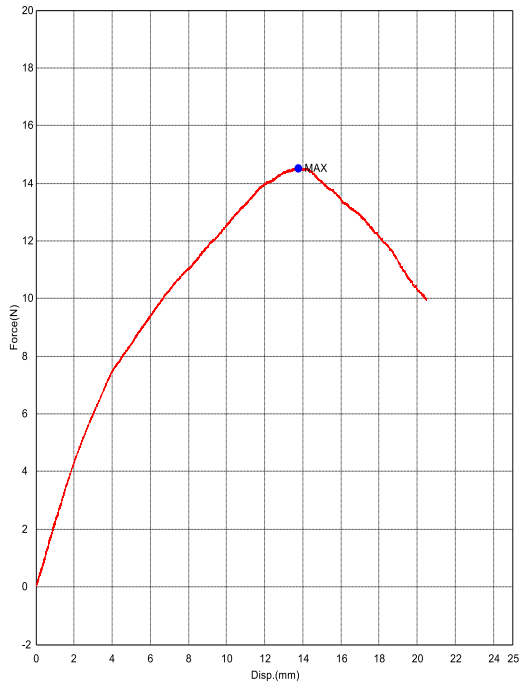
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BENDING KOMPOSIT

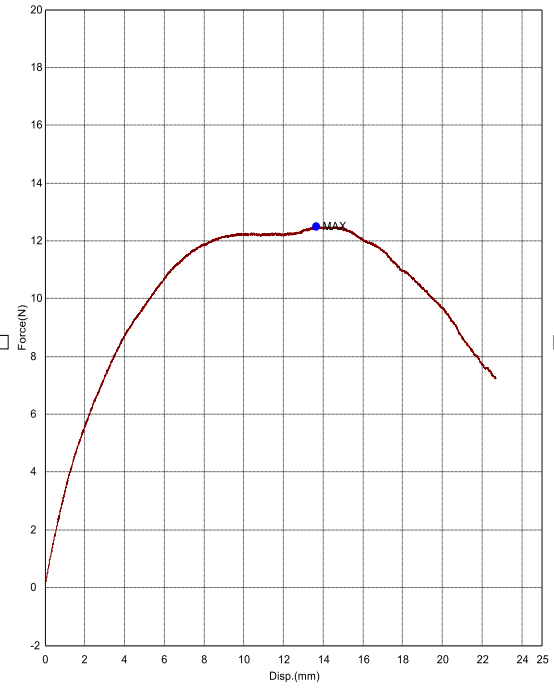
Product Name	EVA – STJ 0%	Method File Name	
Report Date	28/04/22	Test Date	27/04/22
Speed	5mm/min		

Name	Thickness	Width	Lower_Support
Unit	mm	mm	mm
EVA – STJ 0% 1	3,2000	11,6000	34,0000
EVA - STJ 0% 2	3,4000	12,9000	34,0000
EVA - STJ 0% 3	3,6000	12,4000	34,0000

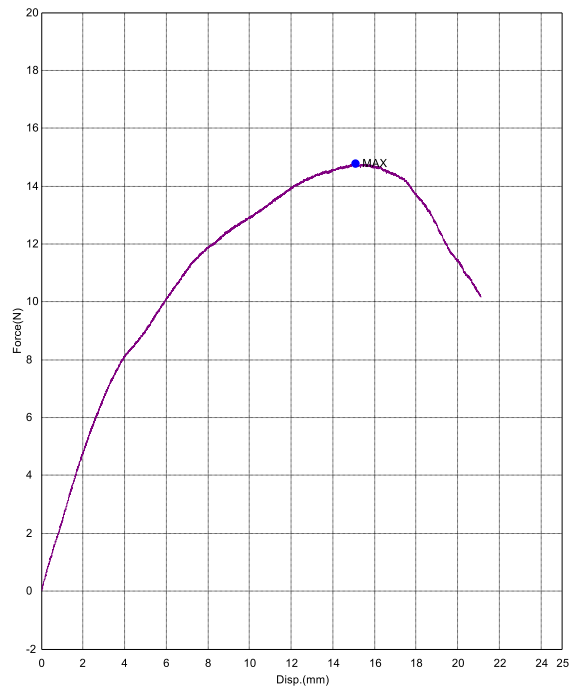
Name	Max_Force	Max_Disp.	Break_Force	Break_Disp.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
EVA - STJ 0% 1	14,5237	13,7671	.-	.-
EVA - STJ 0% 2	12,4860	13,6361	.-	.-
EVA - STJ 0% 3	14,7700	15,0928	.-	.-



EVA 100%-1



EVA 100%-2



EVA 100%-3

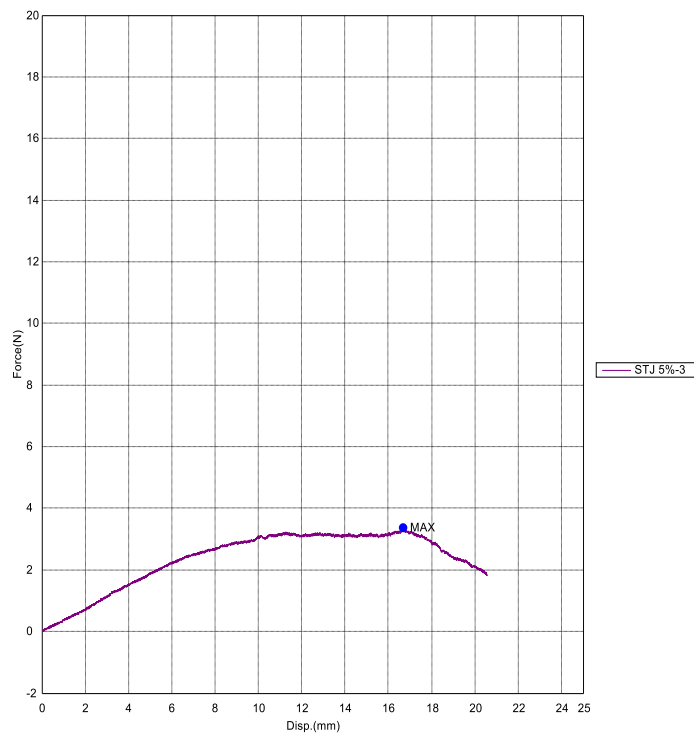
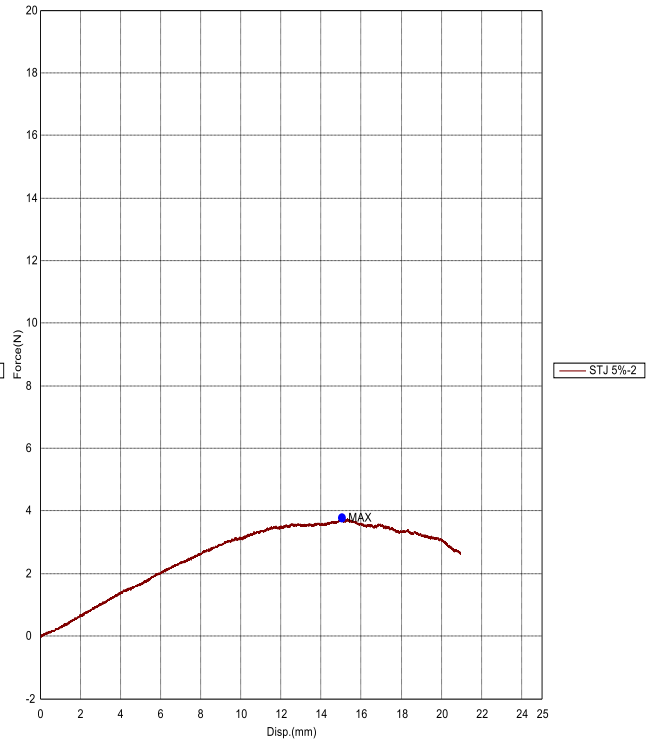
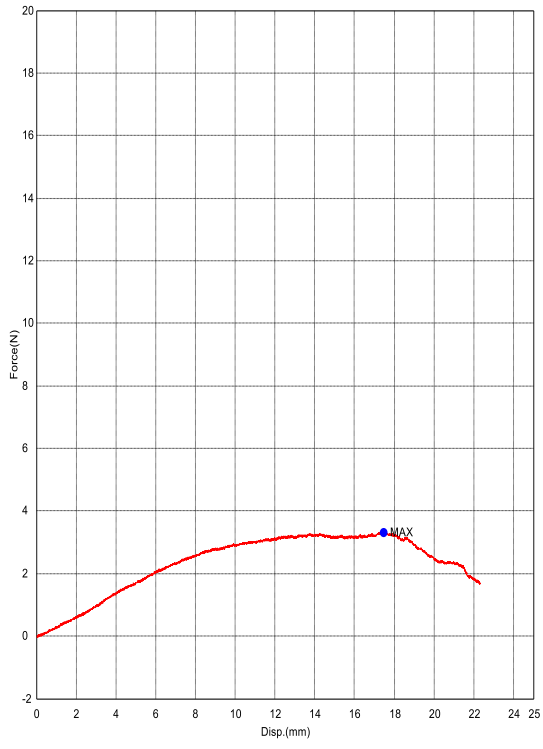
METALURGI FISIK

BENDING KOMPOSIT

Product Name	EVA – STJ 5%	Method File Name	
Report Date	28/04/22	Test Date	27/04/22
Speed	5mm/min		

Name	Thickness	Width	Lower_Support
Unit	mm	mm	Mm
EVA - STJ 5% 1	3,6000	13,3000	34,000
EVA - STJ 5% 2	3,5000	13,4000	34,000
EVA - STJ 5% 3	3,6000	12,7000	34,000

Name	Max_Force	Max_Displ.	Break_Force	Break_Displ.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
EVA - STJ 5% 1	3,31958	17,4819	-.-	-.-
EVA - STJ 5% 2	3,76781	15,0595	-.-	-.-
EVA - STJ 5% 3	3,38237	16,6836	-.-	-.-



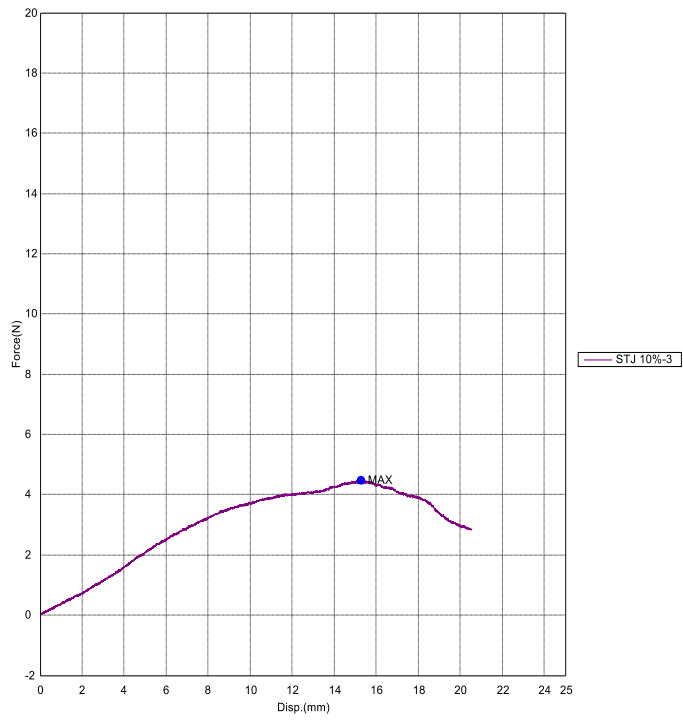
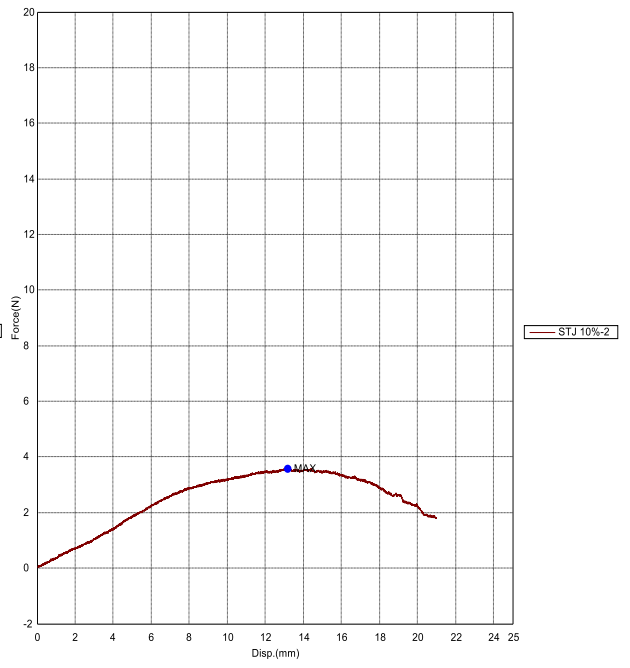
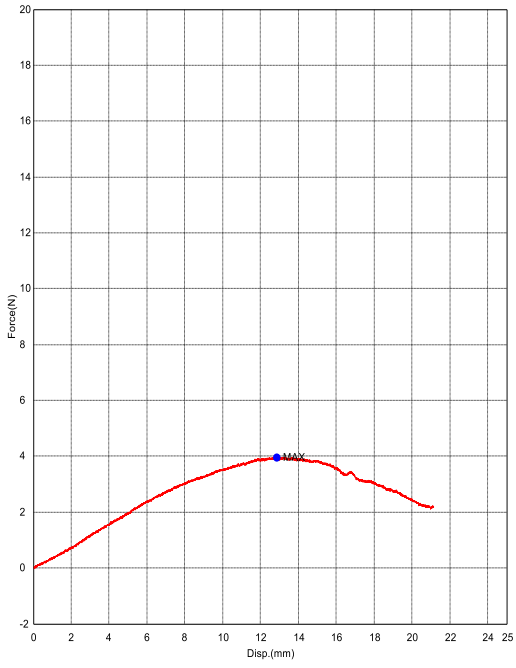
METALURGI FISIK

BENDING KOMPOSIT

Product Name	EVA – STJ 10%	Method File Name	
Operator	Edi iskandar	Report Date	28/04/22
Test Date	27/04/22	Speed	5mm/min

Name	Thickness	Width	Lower_Support
Unit	mm	mm	mm
EVA - STJ 10% 1	3,4000	12,7000	34,000
EVA - STJ 10% 2	3,6000	12,6000	34,000
EVA - STJ 10% 3	3,6000	12,9000	34,000

Name	Max_Force	Max_Displ.	Break_Force.	Break_Displ.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
EVA - STJ 10% 1	3,96172	12,8678	-.-	-.-
EVA - STJ 10% 2	3,58661	13,1603	-.-	-.-
EVA - STJ 10% 3	4,46955	15,2811	-.-	-.-



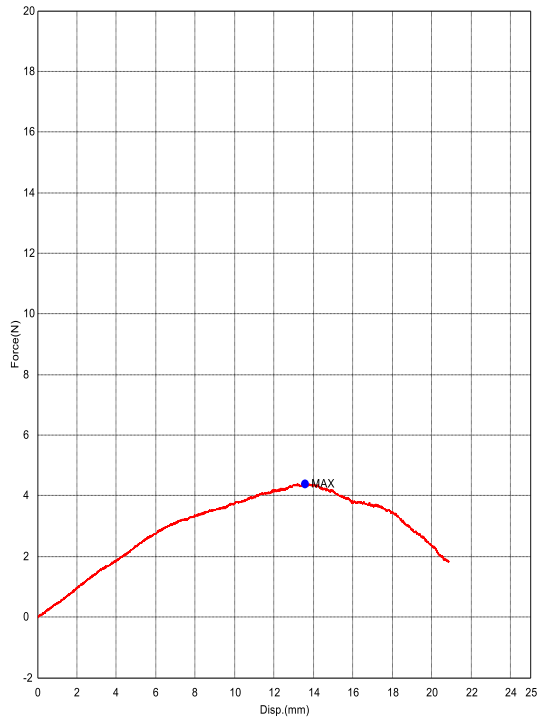
METALURGI FISIK

BENDING KOMPOSIT

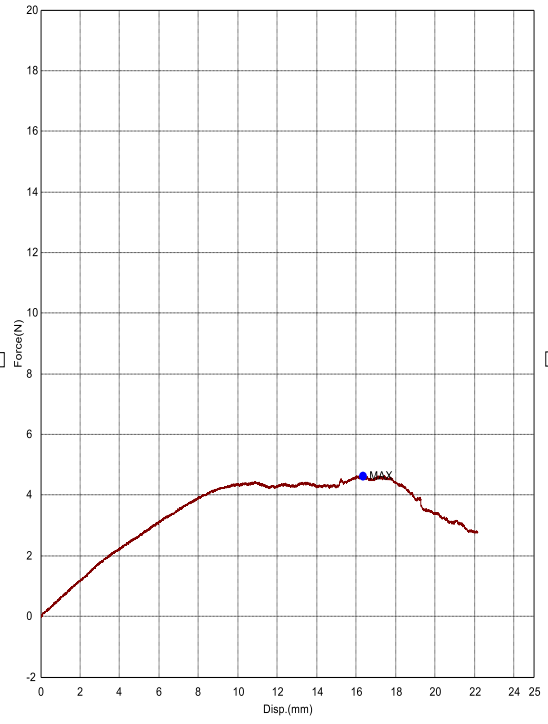
Product Name	EVA – STJ 15%	Method File Name	
Operator	Edi iskandar	Report Date	28/04/22
Test Date	27/04/22	Speed	5mm/min

Name	Thickness	Width	Lower_Support
Unit	mm	mm	mm
EVA - STJ 15%-1	3,5000	12,3000	34,0000
EVA - STJ 15%-2	3,3000	12,8000	34,0000
EVA - STJ 15%-3	3,9000	12,0000	34,0000

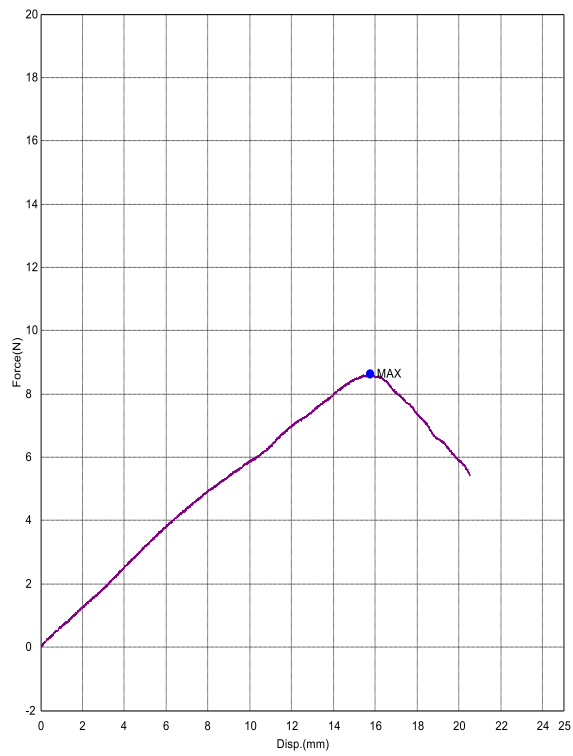
Name	Max_Force	Max_Displ.	Break_Force	Break_Displ.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
EVA - STJ 15%-1	4,40598	13,5878	.-	.-
EVA - STJ 15%-2	4,63883	16,3369	.-	.-
EVA - STJ 15%-3	8,62678	15,7661	.-	.-



STJ 15%-1



STJ 15%-2



STJ 15%-3

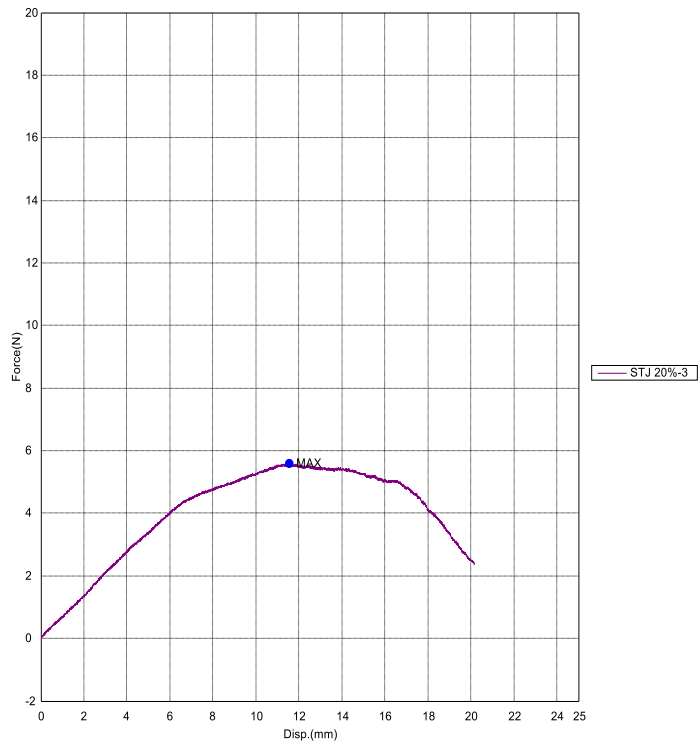
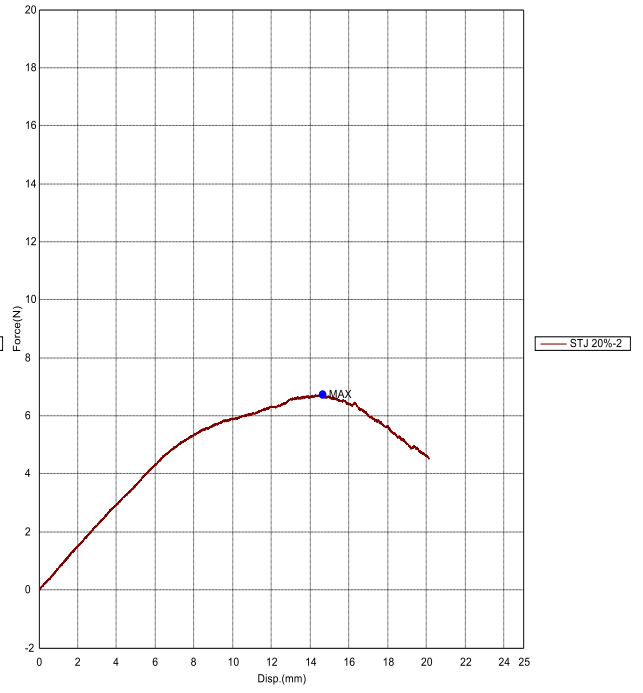
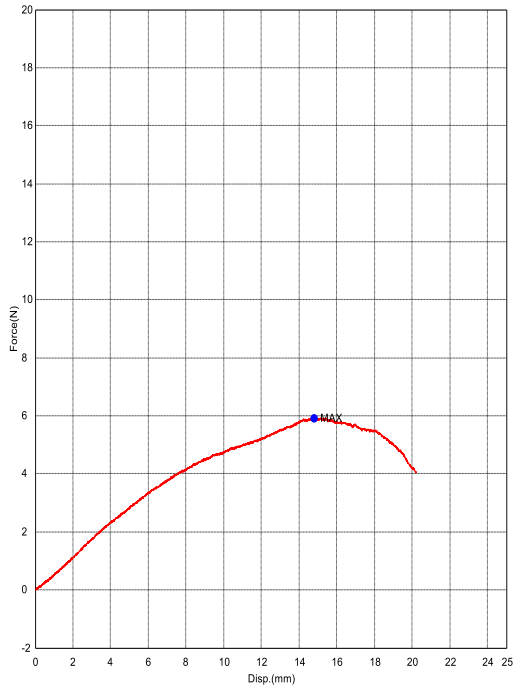
METALURGI FISIK

BENDING KOMPOSIT

Product Name	EVA – STJ 20%	Method File Name	
Operator	Edi iskandar	Report Date	28/04/22
Test Date	27/04/22	Speed	5mm/min

Name	Thickness	Width	Lower_Support
Unit	mm	mm	mm
EVA - STJ 20% 1	3,4000	13,1000	34,0000
EVA - STJ 20% 2	3,7000	12,9000	34,0000
EVA - STJ 20% 3	3,3000	12,9000	34,0000

Name	Max_Force	Max_Displ.	Break_Force	Break_Displ.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
EVA - STJ 20% 1	5,92788	14,8119	.-	.-
EVA - STJ 20% 2	6,72340	14,6328	.-	.-
EVA - STJ 20% 3	5,57900	11,5411	.-	.-



Tabel A. 3
Hasil Pengujian Rekat (*Adhesive*) EVA – STJ

Variasi (%)	Max force (N)	Panjang (mm)	lebar (mm)	Tegangan Maks. (MPa)	Rata-rata (MPa)	Standar Deviasi
0	565,01	25	13	1,7384	1,4568	0,3711
	336,86	25	13	1,0364		
	558,52	25	14	1,5957		
5	445,55	25	13	1,3709	1,3049	0,1237
	465,72	26	13	1,3778		
	424,42	26	14	1,1659		
10	410,48	25	14	1,1728	1,0867	0,2085
	275,91	25	13	0,8489		
	402,49	25	13	1,2384		
15	406,36	25	13	1,2503	1,0706	0,2789
	262,23	25	14	0,7492		
	394,03	25	13	1,2123		
20	354,85	25	14	1,0138	0,8625	0,1937
	302,12	25	13	0,9296		
	217,71	26	13	0,6441		

METALURGI FISIK

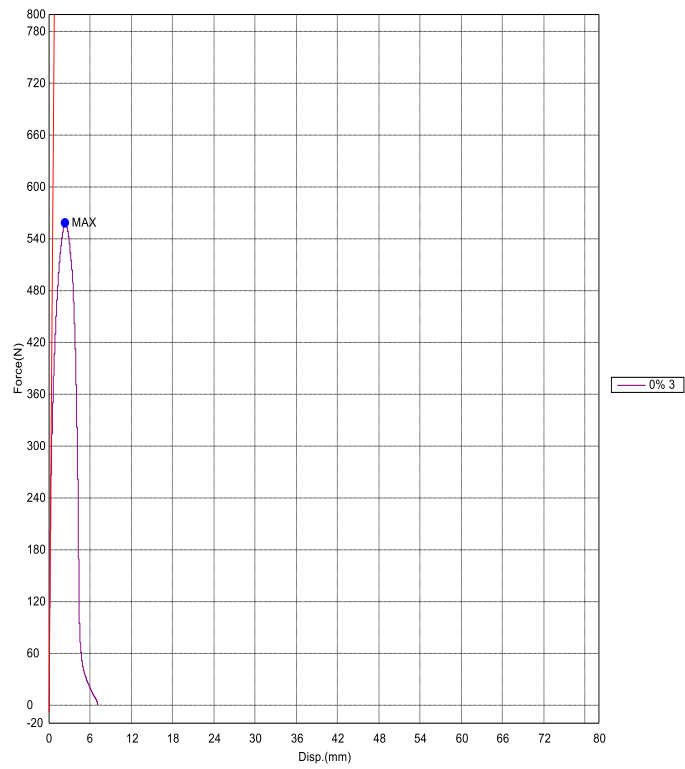
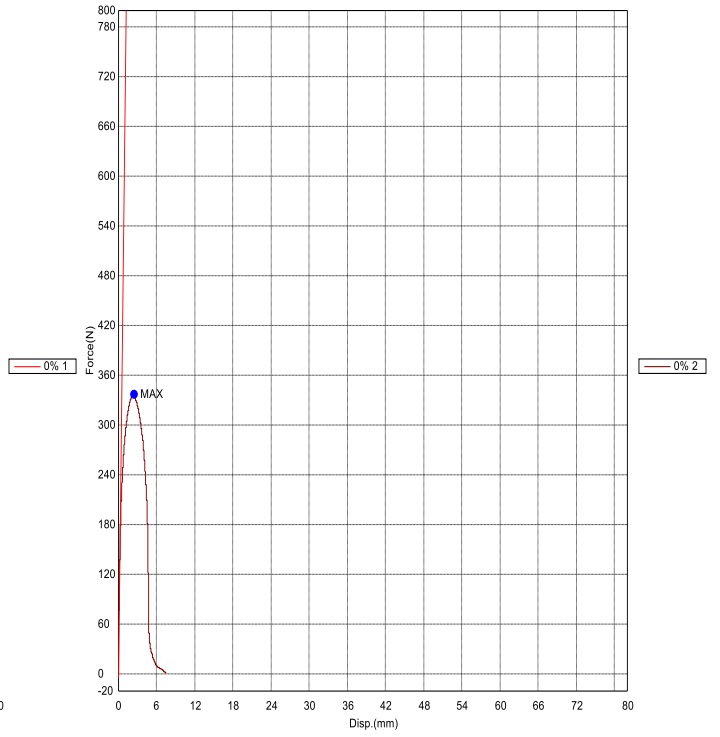
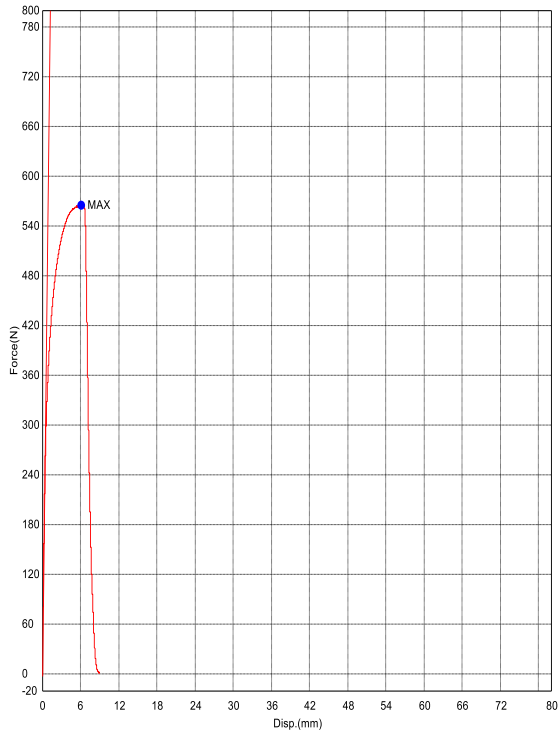
TENSILE ADHESIVE TONGKOL JAGUNG

Key Word	EVA – STJ 0%	Product Name	EVA - STJ	
Test File Name	0%.lta	Method File Name	TENSILE KOMPOSIT.lma	
Operator	Edi Iskandar	Report Date	18/05/22	
Test Date	17/05/22	Test Type	Tensile	
Speed	5mm/min	Shape	Plate	
No of Batches:	1	Qty/Batch:	3	

Name	Thickness	Width	Gauge_Length	
Unit	mm	mm	mm	
EVA – STJ 0% 1	2,1000	27,0000	14,0000	
EVA - STJ 0% 2	2,0600	25,0000	14,0000	
EVA - STJ 0% 3	1,9700	25,0000	14,0000	

Name	Elastic	Max_Force	Max_Displ.	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm2	N	mm	N
EVA - STJ 0% 1	163,854	565,016	6,18110	.-
EVA - STJ 0% 2	182,425	336,864	2,43277	.-
EVA - STJ 0% 3	303,464	558,501	2,41027	.-

Name	Break_Displ.
Parameters	Sensitivity 10
Unit	mm
EVA 100%-1	.-
EVA 100%-2	.-
EVA 100%-3	.-



METALURGI FISIK

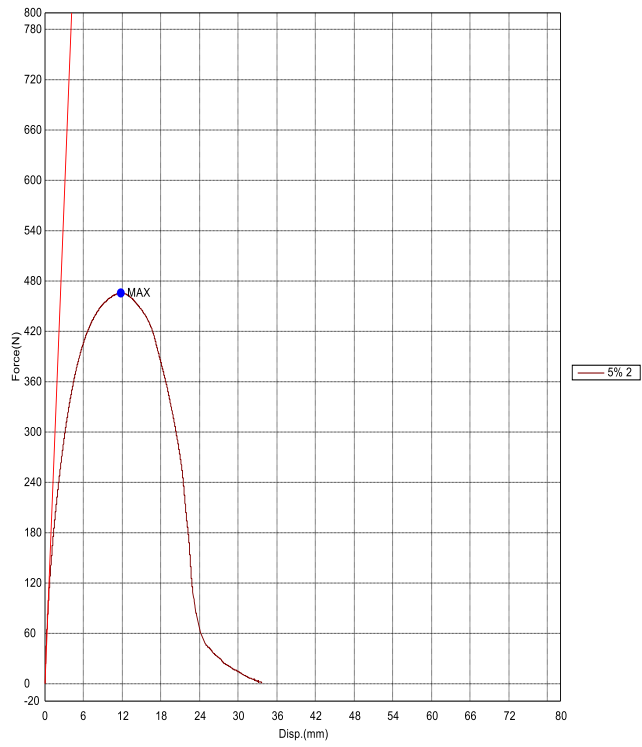
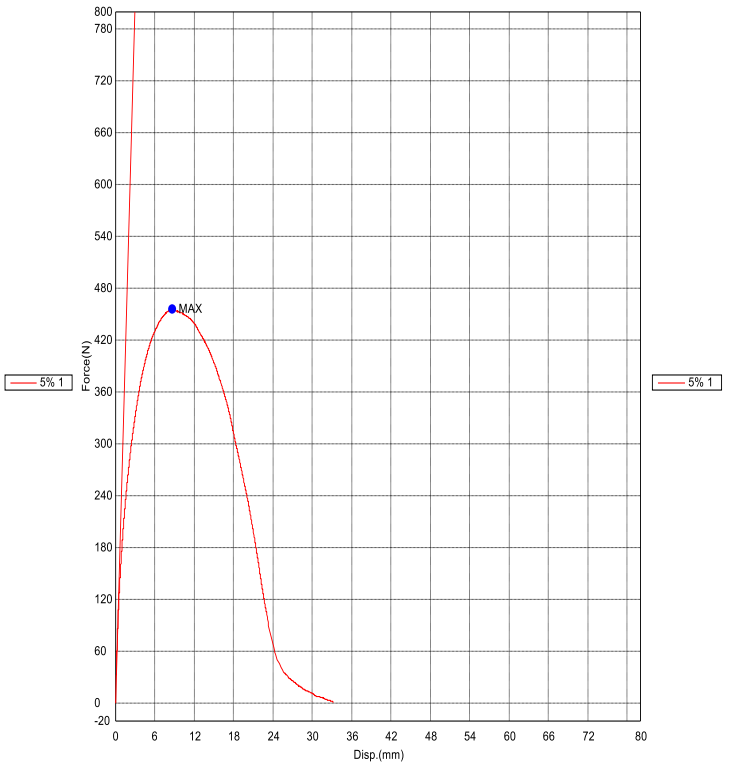
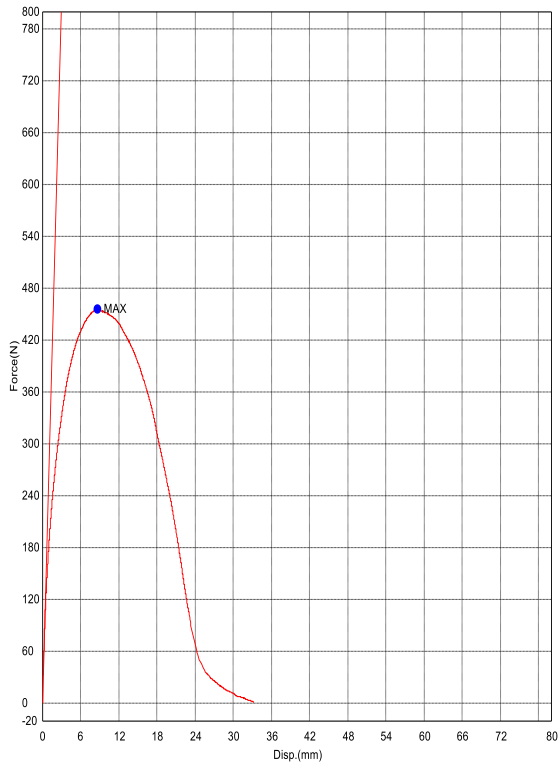
TENSILE ADHESIVE TONGKOL JAGUNG

Key Word	KR-T	Product Name	Tongkol jagung	
Test File Name	5%.ltax	Method File Name	TENSILE KOMPOSIT.lma	
Operator	Edi Iskandar	Report Date	18/05/22	
Test Date	17/05/22	Test Type	Tensile	
Speed	5mm/min	Shape	Plate	
No of Batches:	1	Qty/Batch:	3	

Name	Thickness	Width	Gauge_Length	
Unit	mm	mm	mm	
EVA - STJ 5%-1	1,8600	27,0000	14,000	
EVA - STJ 5%-2	2,1000	27,0000	14,000	
EVA - STJ 5%-3	2,2500	27,0000	14,000	

Name	Elastic	Max_Force	Max_Displ.	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm2	N	mm	N
EVA - STJ 5%-1	76,1799	455,553	8,6577	.-
EVA - STJ 5%-2	47,7371	465,727	11,7886	.-
EVA - STJ 5%-3	53,8705	424,422	10,1519	.-

Name	Break_Displ.
Parameters	Sensitivity 10
Unit	mm
EVA - STJ 5%-1	.-
EVA - STJ 5%-2	.-
EVA - STJ 5%-3	.-



METALURGI FISIK

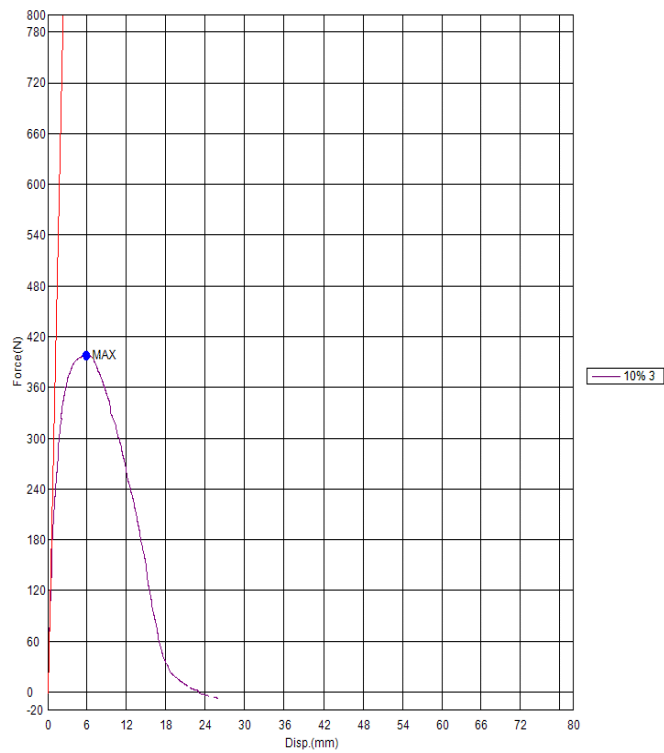
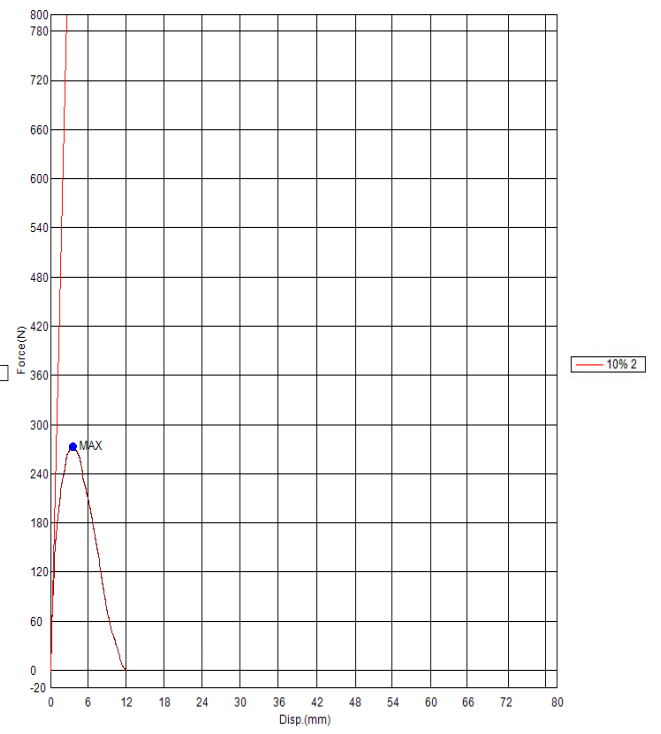
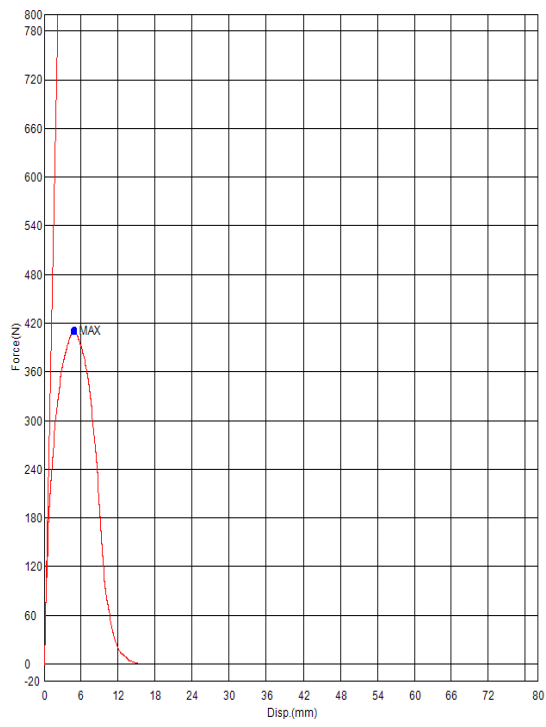
TENSILE ADHESIVE TONGKOL JAGUNG

Key Word	EVA - STJ	Product Name	Tongkol Jagung	
Test File Name	EVA – STJ 10%.Itax	Method File Name	TENSILE KOMPOSIT.lma	
Operator	Edi Iskandar	Report Date	18/05/22	
Test Date	18/05/22	Test Type	Tensile	
Speed	5mm/min	Shape	Plate	
No of Batches :	1	Qty/Batch:	3	

Name	Thickness	Width	Gauge_Length	
Unit	mm	mm	Mm	
EVA - STJ 10%-1	1,8000	27,0000	14,0000	
EVA - STJ 10%-2	2,2000	27,0000	14,0000	
EVA - STJ 10%-3	2,3000	28,0000	14,0000	

Name	Elastic	Max_Force	Max_Dis.	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm2	N	mm	N
EVA - STJ 10%-1	114,853	410,482	4,83530	.-
EVA - STJ 10%-2	44,6293	275,912	4,89523	.-
EVA - STJ 10%- 3	46,0712	402,490	5,55527	.-

Name	Break_Dis.
Parameters	Sensitivity 10
Unit	mm
EVA - STJ 10%-1	.-
EVA - STJ 10%-2	.-
EVA - STJ 10%-3	.-



METALURGI FISIK

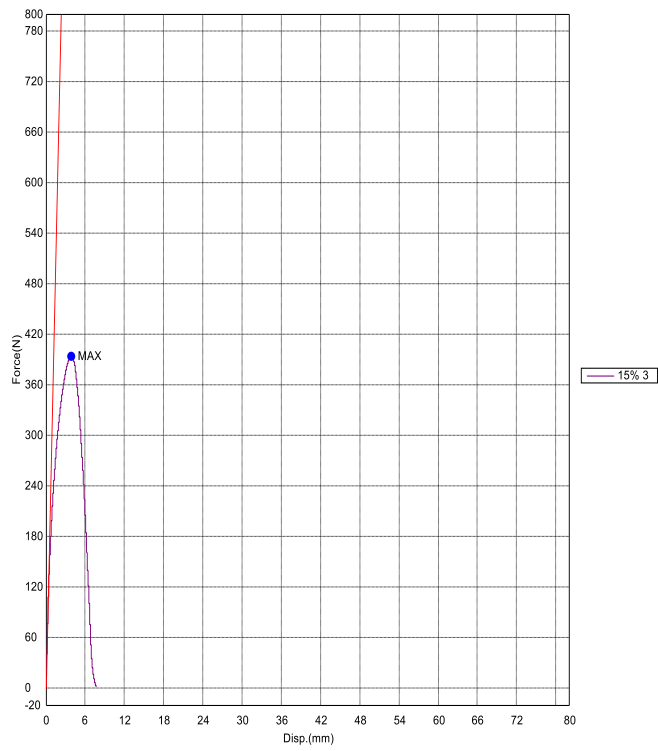
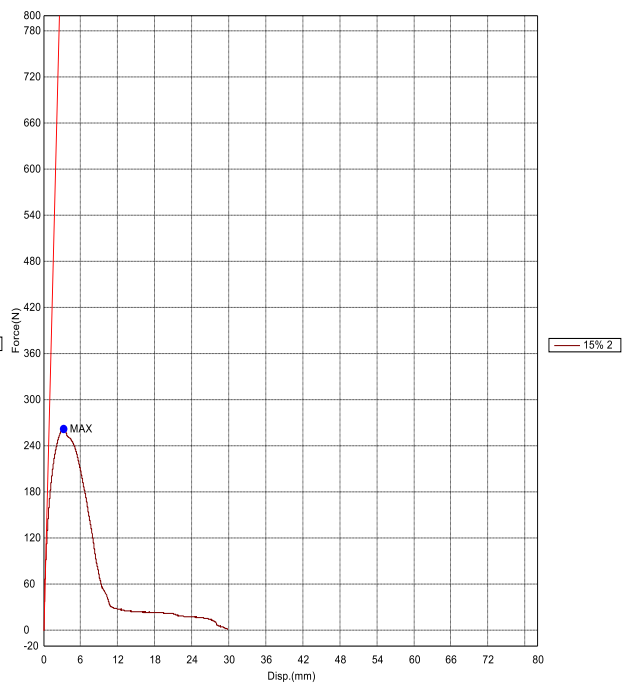
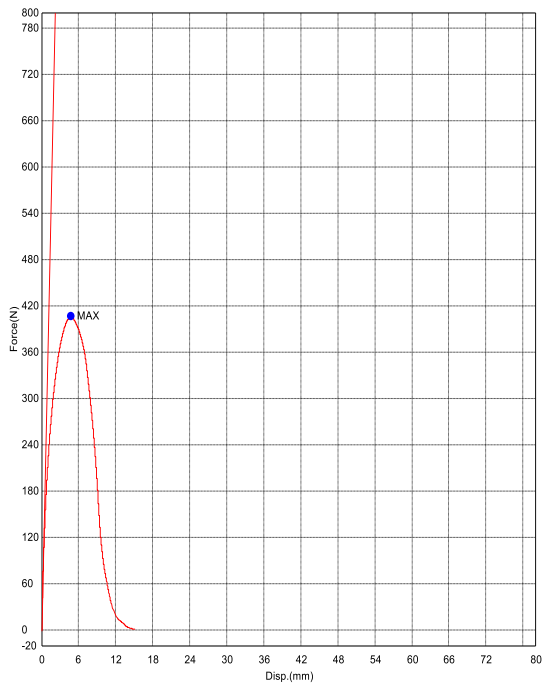
TENSILE ADHESIVE TONGKOL JAGUNG

Key Word	KR-T	Product Name	Tongkol Jagung	
Test File Name	EVA - STJ 15%.ltax	Method File Name	TENSILE KOMPOSIT.lma	
Operator	Edi Iskandar	Report Date	18/05/22	
Test Date	18/05/22	Test type	Tensile	
Speed	5mm/min	Shape	Plate	
No of Bathces	1	Qty/Batch	3	

Name	Thickness	Width	Gauge_Length	
Unit	mm	mm	mm	
EVA - STJ 15%-1	2,0600	26,0000	15,0000	
EVA - STJ 15%-2	1,8000	25,0000	14,0000	
EVA - STJ 15% 3	2,2100	27,0000	15,0000	

Name	Elastic	Max_Force	Max_Disp.	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm2	N	mm	N
EVA - STJ 15%-1	10,3860	406,361	4,73777	.-
EVA - STJ 15%-2	99,1965	262,238	3,24443	.-
EVA - STJ 15%-3	88,2723	394,060	3,89773	.-

Name	Break_Disp.
Parameters	Sensitivity 10
Unit	mm
EVA - STJ 15%-1	.-
EVA - STJ 15%-2	.-
EVA - STJ 15%-3	.-



METALURGI FISIK

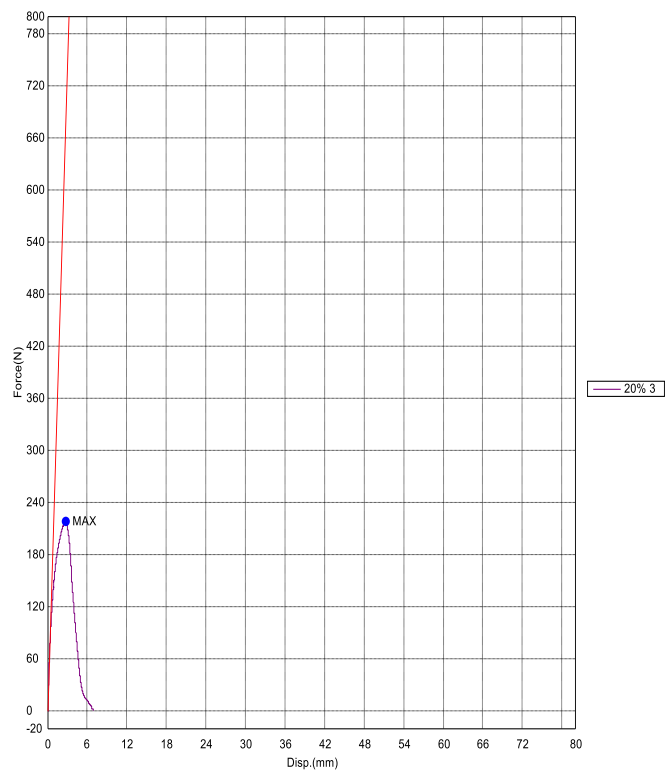
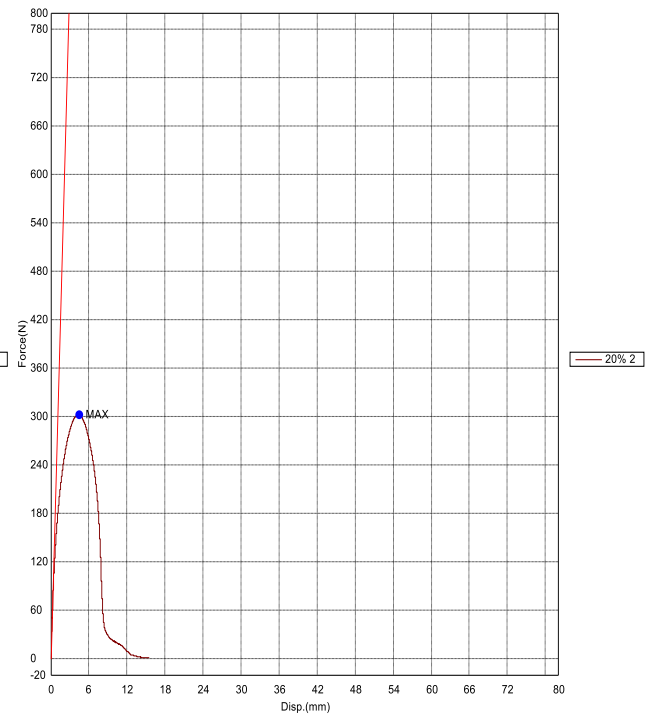
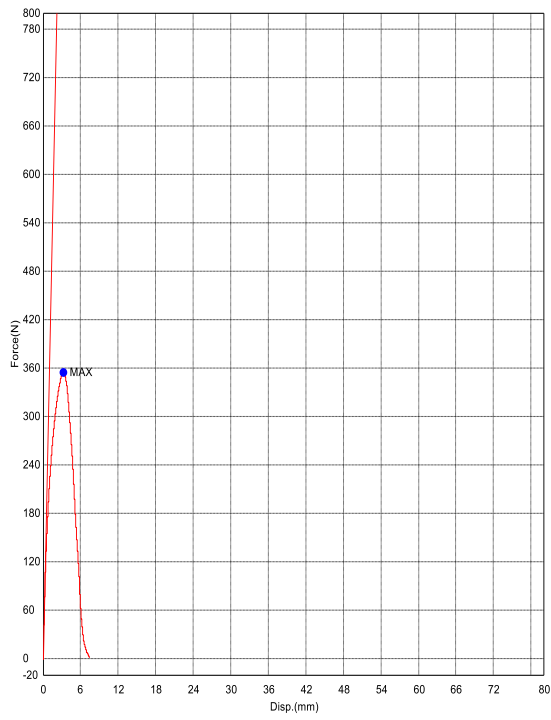
TENSILE ADHESIVE TONGKOL JAGUNG

Key Word	EVA – STJ	Product Name	Tongkol Jangung	
Test File Name	EVA – STJ 20%.Itax	Method File Name	TENSILE KOMPOSIT.lma	
Operator	Edi Iskandar	Report Date	18/05/22	
Test Date	18/05/22	Test Type	Tensile	
Speed	5mm/min	Shape	Plate	
No of Batches:	1	Qty/Batch:	3	

Name	Thickness	Width	Gauge_Length	
Unit	mm	mm	mm	
EVA - STJ 20%-1	2,2000	25,0000	15,0000	
EVA - STJ 20%-2	2,3000	25,0000	14,0000	
EVA - STJ 20%-3	2,2100	26,0000	14,0000	

Name	Elastic	Max_Force	Max_Displacement	Break_Force
Parameters	Force 10 - 20 N	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10
Unit	N/mm2	N	mm	N
EVA - STJ 20%-1	101,588	354,856	3,21273	.-
EVA - STJ 20%-2	69,6299	302,129	4,44360	.-
EVA - STJ 20%-3	61,0835	217,718	2,76193	.-

Name	Break_Displacement
Parameters	Sensitivity 10
Unit	mm
EVA - STJ 20%-1	.-
EVA - STJ 20%-2	.-
EVA - STJ 20%-3	.-



LAMPIRAN 2

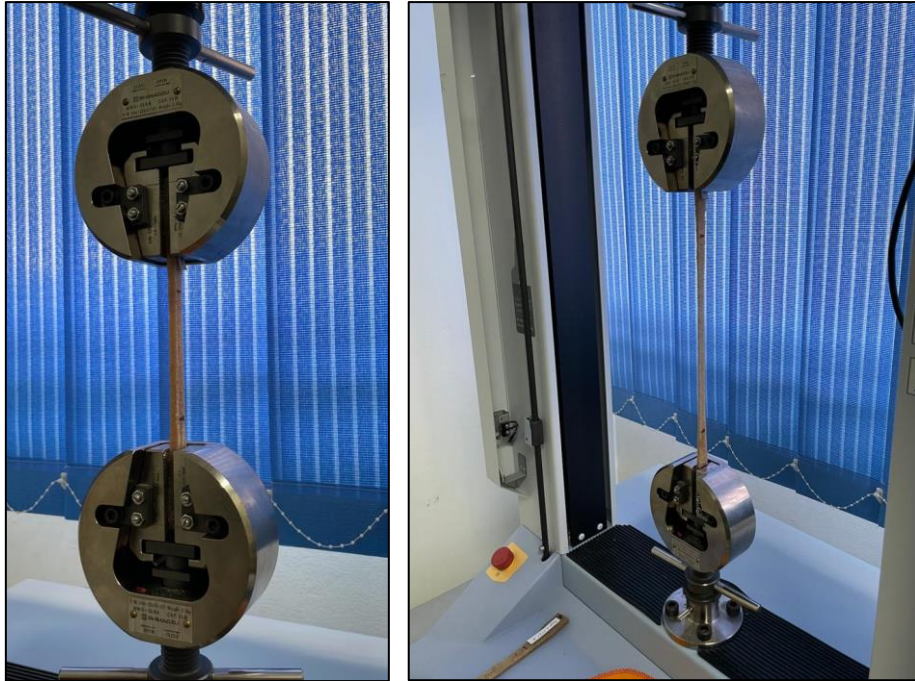
DOKUMENTASI PENELITIAN

Gambar B. 1

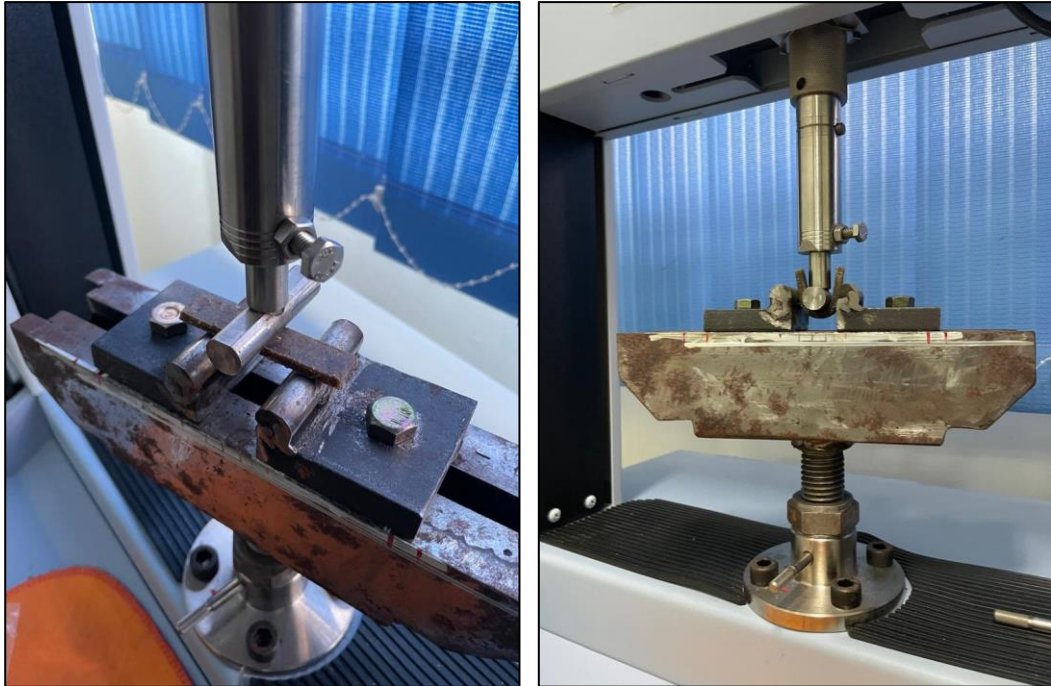
Proses Pencampuran *Ethylene-Vinyl Acetate* – Serbuk Tongkol Jagung



Gambar B. 2
Pengujian Tarik (*Tensile*)



Gambar B. 3
Pengujian Tekuk (*Bending*)



Gambar B. 4
Pengujian Rekat (*Adhesive*)

