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LAMPIRAN

Lampiran 1. Hasil Uji tarik Komposit Tenunan Serat Rami 5% pigment pastes

LAMA PENJEMURAN	Lebar (mm)	Tebal (mm)	Luas (mm ²)	Luas (m ²)	Beban (Kg)	Beban (N)	Tegangan (PA)	Tegangan (Mpa)	Panjang mula-mula (mm)	Perpanjangan (ΔL) (mm)	Regangan (€)	Regangan (%)	Modulus Tarik (GPa)
-	12.6	4.1	51.66	0.00005166	179.38985	1759.213	34062594	34.062594	50	1.64	0.033	3.3	1.0441087
0	12.7	3.9	49.67	0.00004967	214.38097	2102.359	42254342	42.254342	50	2.09	0.042	4.2	1.0236479
2	13.8	4.1	56.56	0.00005656	246.90827	2421.3827	42807606	42.807606	50	2.57	0.051	5.10	0.8376754
4	13.6	4	54.39	0.00005439	250.26975	2454.308	45112731	45.112731	50	2.95	0.059	5.90	0.7652291
6	12.9	4	51.89	0.00005189	176.95827	1735.382	33449542	33.449542	50	1.76	0.035	3.50	0.9652471
8	12.2	4.2	51.77	0.00005177	194.5157	1907.557	36724336	36.724336	50	1.67	0.033	3.30	1.1509992
10	12.3	4.2	51.25	0.00005125	173.77655	1704.166	33255449	33.255449	50	1.54	0.031	3.10	1.0987301
12	12.4	4.1	50.84	0.00005084	186.83673	1832.242	36044523	36.044523	50	1.69	0.034	3.40	1.0702459

Lampiran 2. Hasil Uji tarik Komposit Tenunan Serat Rami 7,5% pigment pastes

LAMA PENJEMURAN	Lebar (mm)	Tebal (mm)	Luas (mm ²)	Luas (m ²)	Beban (Kg)	Beban (N)	Tegangan (PA)	Tegangan (Mpa)	Panjang mula-mula (mm)	Perpanjangan (ΔL) (mm)	Regangan (€)	Regangan (%)	Modulus Tarik (GPa)
-	12.5	3.6	44.47	0.00004447	172.71081	1693.714	38115630	38.115630	50	1.9	0.038	3.8	1.006749
0	12.7	3.9	49.67	0.00004967	214.38097	2102.359	42254342	42.254342	50	2.09	0.042	4.2	1.0236479
2	12.8	3.7	47.24	0.00004724	190.04874	1863.742	39505285	39.505285	50	2.06	0.041	4.1	0.9587108
4	12.3	3.6	43.87	0.00004387	170.26013	1669.681	38022734	38.022734	50	1.34	0.027	2.7	1.5117117
6	13.3	3.8	49.99	0.00004999	181.71198	1781.986	35912437	35.912437	50	2.12	0.042	4.2	0.8662936
8	12.5	3.9	48.32	0.00004832	187.83113	1841.94	38066641	38.066641	50	2.25	0.045	4.5	0.863837
10	12.5	3.7	46.67	0.00004667	175.53005	1721.362	36906321	36.906321	50	1.8	0.036	3.6	1.0246911
12	12.4	4.1	50.84	0.00005084	186.83673	1832.242	36044523	36.044523	50	1.69	0.034	3.4	1.0702459

Lampiran 3. Hasil Uji tarik Komposit Tenunan Serat Rami 10% pigment pastes

LAMA PENJEMURAN	Lebar (mm)	Tebal (mm)	Luas (mm ²)	Luas (m ²)	Beban (Kg)	Beban (N)	Tegangan (PA)	Tegangan (Mpa)	Panjang mula-mula (mm)	Perpanjangan (ΔL) (mm)	Regangan (€)	Regangan (%)	Modulus Tarik (GPa)
-	12.8	3.9	49.09	0.00004909	166.501231	1632.24	33245736.2	33.245736	50	1.83	0.03665	3.7	0.9479875
0	12.5	4.2	52.64	0.00005264	244.44720	2397.208	45515255	45.515255	50	2.82	0.056	5.6	0.818628
2	13.8	3.8	52.57	0.00005257	238.2422555	2336.358	44463224.7	44.463225	50	2.97	0.05936	5.9	0.7498281
4	12.2	3.9	47.31	0.00004731	164.5005676	1613.20	34193631	34.193631	50	1.94	0.03878	3.9	0.9052007
6	13.6	4	54.40	0.00005440	202.04644	1981.40	36469171	36.469171	50	2.12	0.04249	4.2	0.8599067
8	13.3	3.8	50.88	0.00005088	163.70558	1605.40	31678765	31.678765	50	1.19	0.024	2.4	1.3508038
10	12.6	3.9	49.12	0.00004912	158.0667479	1550.105	31732317	31.732317	50	1.29	0.02576	2.6	1.2739517
12	12.6	3.9	49.12	0.00004912	158.0667479	1550.105	31732317	31.732317	50	1.29	0.02576	2.6	1.2739517

Lampiran 4. Hasil Uji Bending Komposit Tenunan Serat Rami 5% *pigment pastes*

No	Lebar (b=mm)	Tebal (mm)	Defleksi (D) mm	Beban defleksi	P (N)	σ_f (Mpa)	ϵ_f (mm/mm)	momen inersia (mm)	EB	
									(Mpa)	(Gpa)
-	16.27	4.1	9.55116	39.6523	388.592	139.826	0.0546	93.4262	2538.99	2.53899
TP	16.13	3.93333	8.59443	23.0159	225.555	85.2387	0.05124	82.0318	1702.71	1.70271
2	16.03	4.03333	9.20623	37.0633	363.221	134.803	0.05351	87.6982	2505	2.505
4	15.93	4.03333	9.34497	40.5232	397.128	147.959	0.0543	87.1922	2691.41	2.69141
6	16.13	4.26667	8.67509	36.3419	356.15	124.968	0.04789	105.447	2473.12	2.47312
8	16.13	4.16667	8.64169	33.6835	330.098	117.804	0.04862	97.2964	2350.82	2.35082
10	16.07	4.06667	8.87379	29.117	285.347	105.113	0.05125	90.3208	2027.3	2.0273
12	15.93	4.23333	8.41561	22.4582	220.09	78.2861	0.04659	100.781	1582.84	1.58284

Lampiran 5. Hasil Uji Bending Komposit Tenunan Serat Rami 7,5% *pigment pastes*

No	Lebar (b=mm)	Tebal (mm)	Defleksi (D) mm	Beban defleksi	P (N)	σ_f (Mpa)	ϵ_f (mm/mm)	momen inersia (mm)	EB	
									(Mpa)	(Gpa)
-	16.23	4.13333	9.53065	39.4506	386.616	138.782	0.05414	95.657	2495.1	2.4951
TP	16.20	4.3	9.83059	50.6274	496.149	170.701	0.05359	107.435	2996.8	2.9968
2	16.07	3.76667	9.13936	31.4175	307.891	122.258	0.05689	71.6158	2289.67	2.28967
4	15.90	3.83333	9.33249	41.0801	402.585	158.131	0.05721	75.2198	2871.96	2.87196
6	15.93	3.93333	9.31879	38.5581	377.869	144.841	0.05555	80.8299	2637.09	2.63709
8	16.07	4	8.63467	25.0535	245.525	91.5858	0.05059	85.7696	1812.53	1.81253
10	16.10	3.96667	9.65718	36.2831	355.574	133.466	0.0571	83.8806	2371.3	2.3713
12	16.07	3.96667	9.07293	24.132	236.493	89.1784	0.05368	83.8465	1684.99	1.68499

Lampiran 6. Hasil Uji Bending Komposit Tenunan Serat Rami 10% *pigment pastes*

No	Lebar (b=mm)	Tebal (mm)	Defleksi (D) mm	Beban defleksi	P (N)	σ_f (Mpa)	ϵ_f (mm/mm)	momen inersia (mm)	EB	
									(Mpa)	(Gpa)
-	16.10	3.96667	9.35857	36.0724	353.509	132.37	0.0553	83.9715	2420.14	2.42014
TP	16.07	4.2	9.44449	38.6159	378.436	134.634	0.0527	99.1956	2442.9	2.4429
2	15.87	4.03333	8.98627	32.8505	321.935	120.527	0.05221	86.8093	2256.07	2.25607
4	16.10	3.96667	8.69422	37.1465	364.036	137.098	0.05161	85.0502	2703.39	2.70339
6	16.03	4	9.21889	37.4871	367.373	137.406	0.05408	85.8618	2549.92	2.54992
8	16.00	4.1	9.05944	36.7376	360.028	131.587	0.05181	91.989	2478.72	2.47872
10	16.03	4.03333	8.54816	26.0099	254.897	94.7223	0.04971	87.7119	1887.61	1.88761
12	16.20	4.3	8.76102	24.7901	242.943	83.9141	0.04784	107.591	1651.08	1.65108

Lampiran 7 Panel



Lampiran 8 Spesimen Sebelum Uji Tarik

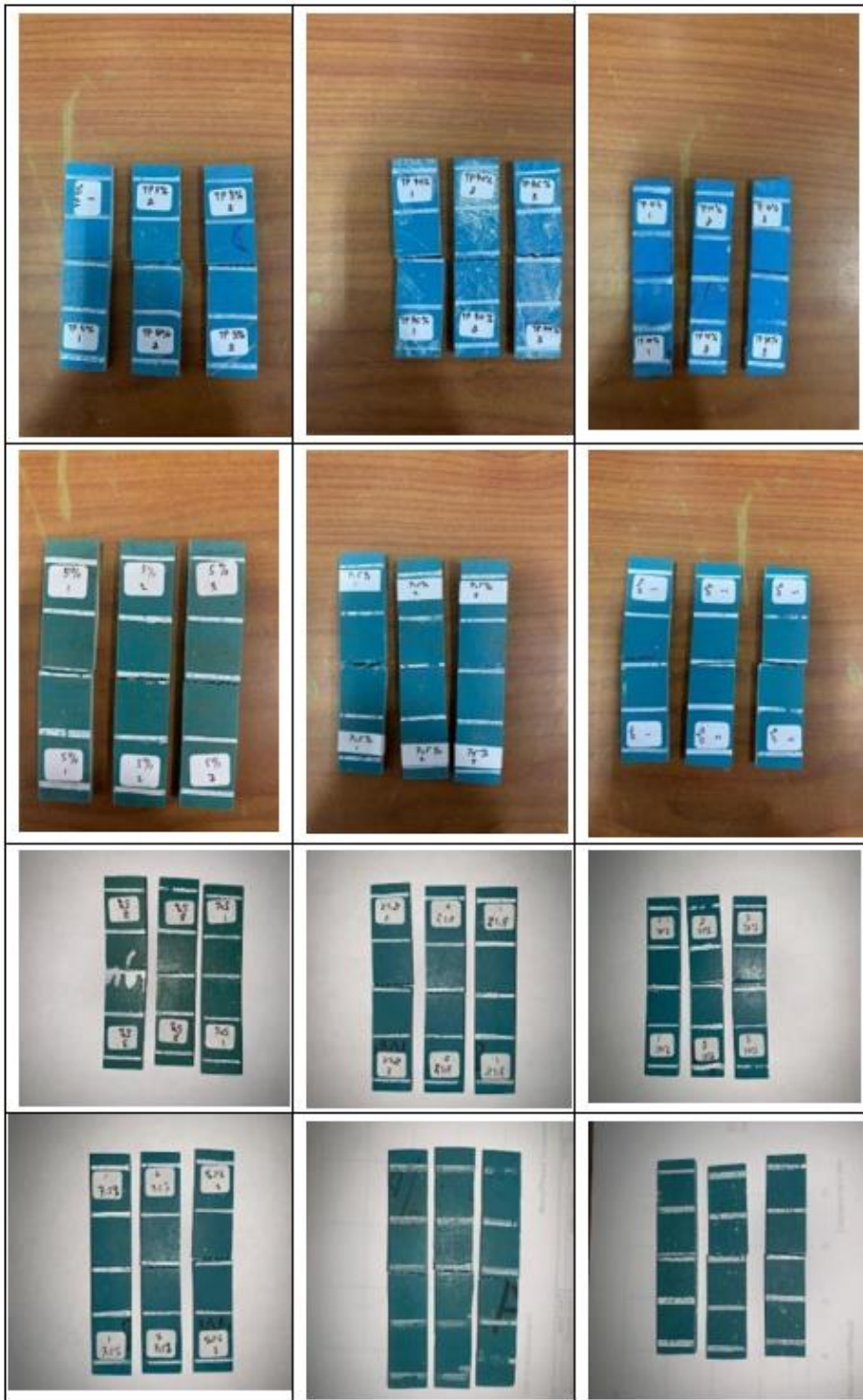
Lampiran 9 Spesimen Setelah Uji Tarik

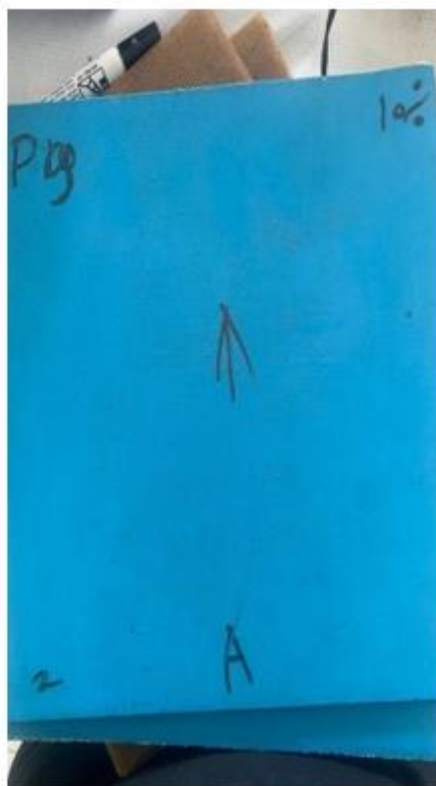


Lampiran 10 spesimen Sebelum Uji Bending



Lampiran 11 Spesimen Setelah Uji Bending



Lampian 12 Foto Kegiatan Penelitian

Lampiran 13 Foto pengujian

