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APPENDIX

Appendix A Data of Mechanical Testing

Table A1 Mechanical properties of 2

Sample	Young's Modulus (GPa)	Tensile Strength (MPa)	Elongation at Break (%)
1	0.87	17.13	4.63
2	1.23	19.79	4.20
3	1.18	17.15	5.15
4	0.99	15.13	4.93
5	1.32	17.47	4.49
6	1.10	19.72	6.09
7	0.98	19.77	5.09
8	8.39	17.27	5.55
9	1.20	18.92	4.73
10	1.36	20.38	5.70
Average	1.11	18.27	5.06
S.D.	0.18	1.69	0.59

Table A2 Mechanical properties of 3

Sample	Young's Modulus (GPa)	Tensile Strength (MPa)	Elongation at Break (%)
1	1.24	17.67	3.20
2	1.78	19.49	3.30
3	1.79	20.87	2.91
4	1.57	21.88	4.22
5	1.35	21.56	3.25
6	1.25	21.09	4.39
7	1.62	21.89	3.68
8	1.30	18.68	3.35
9	1.38	21.51	3.72
10	1.43	19.94	3.48
Average	1.47	20.46	3.55
S.D.	0.21	1.46	0.46

Table A3 Mechanical properties of 4

Sample	Young's Modulus (GPa)	Tensile Strength (MPa)	Elongation at Break (%)
1	0.81	22.82	9.04
2	1.48	25.83	6.11
3	0.96	22.71	6.84
4	1.41	26.76	6.91
5	1.08	22.75	5.24
6	1.52	27.62	3.87
7	0.88	21.22	3.84
8	1.34	25.30	8.92
9	1.00	20.44	3.79
10	0.99	20.32	4.32
Average	1.15	23.58	5.89
S.D.	0.26	2.64	2.02

Table A4 Mechanical properties of 5

Sample	Young's Modulus (GPa)	Tensile Strength (MPa)	Elongation at Break (%)
1	1.09	22.39	5.18
2	9.19	16.44	4.10
3	1.06	17.63	4.20
4	1.16	17.39	4.16
5	1.08	18.67	5.76
6	0.94	18.81	5.55
7	1.05	19.77	5.80
8	1.07	18.78	4.55
9	0.90	15.22	3.86
10	1.13	19.24	4.48
Average	1.04	18.43	4.76
S.D.	0.09	1.95	0.74

Table A5 Mechanical properties of pure PLA

Sample	Young's Modulus (GPa)	Tensile Strength (MPa)	Elongation at Break (%)
1	1.19	34.60	7.18
2	1.48	37.59	17.30
3	1.37	38.82	9.78
4	1.75	41.74	15.30
5	1.47	32.13	3.70
6	2.10	37.45	9.34
7	2.13	39.32	5.75
8	1.59	37.58	4.26
9	0.17	37.03	8.82
10	1.46	33.58	4.07
Average	1.53	36.98	8.55
S.D.	0.42	2.85	4.67

Table A6 Mechanical properties of 19

Sample	Young's Modulus (GPa)	Tensile Strength (MPa)	Elongation at Break (%)
1	0.91	19.53	53.26
2	1.00	14.20	46.20
3	0.89	15.34	24.98
4	0.82	14.76	44.57
5	0.62	18.74	36.91
6	0.97	18.29	31.54
7	1.10	18.12	55.64
8	0.91	18.88	58.51
9	1.09	16.05	33.62
10	0.88	14.00	33.62
Average	0.92	16.79	41.89
S.D.	0.14	2.13	11.43

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