Date:

Aim: **Quantitate stiffness of PS-PANI at multiple concentrations of PANI**

Sample	Deformation	PANI	Force	Starting Length	Sample Width	Sample Height	Sample CS Area	Stress	Strain
	(mm)	(%)	(N)	(mm)	(mm)	(mm)	(mm2)	(kN/mm2)	(mm/mm)
1	0	30	0	20	11	0.8	8.8	0	0
1	0.1	30	11	20	12	0.4	4.8	0.0022917	0.005
Mean								0.0022917	0.005
1	0.1	10	17.6	20	12	0.4	4.8	0.0036667	0.005
2	0.1	10	30.7	20	12.9	0.4	5.16	0.0059496	0.005
3	0.1	10	27.2	20	11.1	0.4	4.44	0.0061261	0.005
Mean								0.0052475	0.005
1	1	3	39.4	20	12.2	0.5	6.1	0.006459	0.05
2	1	3	33.6	20	12.7	0.4	5.08	0.0066142	0.05
3	1	3	45.5	20	12.5	0.4	5	0.0091	0.05
Mean								0.0073911	0.05
1	1	0	23.8	20	14.8	0.4	5.92	0.0040203	0.05
1	1	0	34.4	20	13	0.4	5.2	0.0066154	0.05
Mean								0.0053178	0.05
1	2	0	35.7	20	14.8	0.4	5.92	0.0060304	0.1
1	2	0	59.2	20	13	0.4	5.2	0.0113846	0.1
Mean								0.0087075	0.1
1	3	0	44.7	20	14.8	0.4	5.92	0.0075507	0.15
Mean								0.0075507	0.15