

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:01:18 BST 2023

Experiment info

Name	csg524 Sample 3.5 Measurement 2
Type	Contact angle
Date	16-May-2023 14:00

Solid

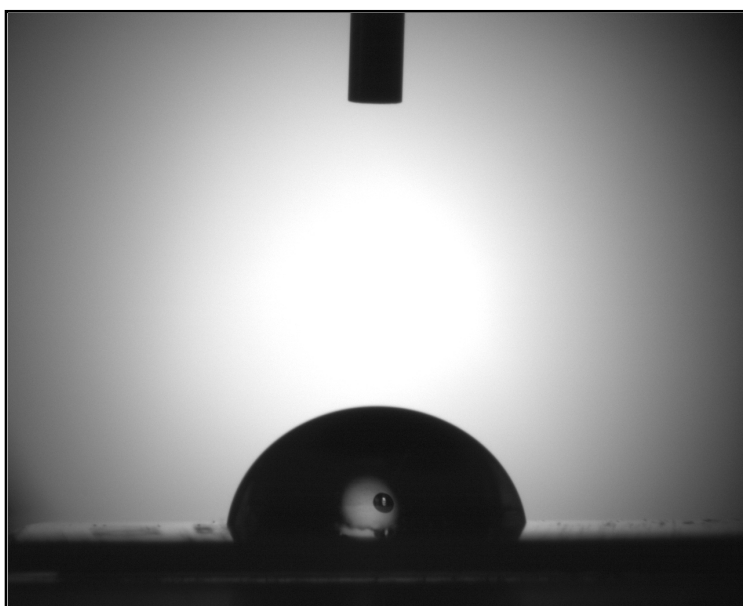
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

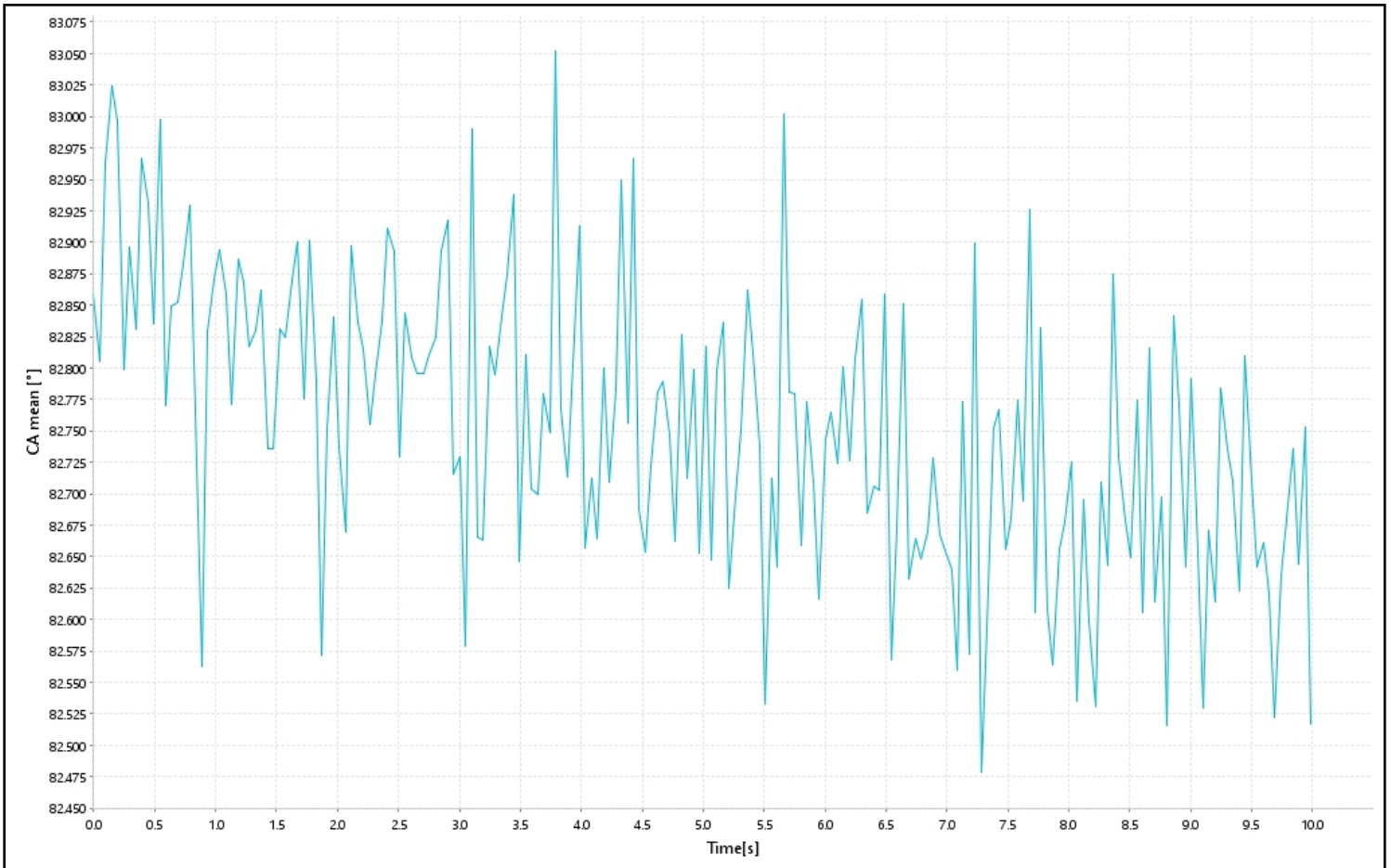
Heavy phase

Name	Water 20 C
γ_{tot} [mN/m]	72.800
γ_{d} [mN/m]	21.800
γ_{+} [mN/m]	25.500
γ_{-} [mN/m]	25.500
ρ [g/cm ³]	0.9980
η [mPa.s]	1.002
Temperature [°C]	20.000
Molecular weight [g/mol]	18.010

Light phase

Name	Air
γ_{tot} [mN/m]	
γ_{d} [mN/m]	
γ_{+} [mN/m]	
γ_{-} [mN/m]	
ρ [g/cm ³]	0.0012
η [mPa.s]	
Temperature [°C]	20.000
Molecular weight [g/mol]	0.029





Detailed results

Time [s]	CA left [°]	CA right [°]	CA mean [°]	Volume [μl]	Baseline [mm]
0.00	83.14	82.58	82.86	0.27	1.11
0.05	83.08	82.53	82.81	0.27	1.11
0.10	83.30	82.63	82.96	0.27	1.11
0.15	83.35	82.70	83.02	0.27	1.11
0.20	83.37	82.62	83.00	0.27	1.11
0.25	83.16	82.44	82.80	0.26	1.11
0.30	83.24	82.55	82.90	0.27	1.11
0.34	83.15	82.51	82.83	0.27	1.11
0.39	83.43	82.51	82.97	0.27	1.11
0.44	83.26	82.60	82.93	0.27	1.11
0.49	83.15	82.52	82.84	0.27	1.11
0.54	83.19	82.81	83.00	0.27	1.11
0.59	82.98	82.56	82.77	0.27	1.11
0.64	83.08	82.62	82.85	0.27	1.11
0.69	83.08	82.62	82.85	0.27	1.11
0.74	83.03	82.73	82.88	0.27	1.11
0.79	83.09	82.77	82.93	0.27	1.11
0.84	83.03	82.51	82.77	0.27	1.11
0.89	82.86	82.27	82.56	0.27	1.11
0.93	83.00	82.66	82.83	0.27	1.11
0.98	82.92	82.82	82.87	0.27	1.11
1.03	83.02	82.77	82.89	0.27	1.11
1.08	82.93	82.79	82.86	0.27	1.11
1.13	82.93	82.62	82.77	0.27	1.11
1.18	83.10	82.67	82.89	0.27	1.11
1.23	83.03	82.70	82.87	0.27	1.11
1.28	83.04	82.59	82.82	0.27	1.11
1.33	83.13	82.53	82.83	0.27	1.11
1.38	83.20	82.53	82.86	0.27	1.11
1.43	83.02	82.45	82.74	0.27	1.11
1.48	82.99	82.48	82.74	0.27	1.11
1.53	82.98	82.69	82.83	0.27	1.11
1.57	82.98	82.67	82.82	0.27	1.11
1.62	83.07	82.67	82.87	0.27	1.11
1.67	83.15	82.65	82.90	0.27	1.11
1.72	83.04	82.51	82.78	0.27	1.11

1.77	83.13	82.67	82.90	0.27	1.11
1.82	83.09	82.49	82.79	0.27	1.11
1.87	82.89	82.25	82.57	0.26	1.11
1.92	82.95	82.55	82.75	0.27	1.11
1.97	83.10	82.58	82.84	0.27	1.11
2.02	82.97	82.50	82.74	0.27	1.11
2.07	82.79	82.54	82.67	0.27	1.11
2.12	83.04	82.75	82.90	0.27	1.11
2.16	83.03	82.64	82.84	0.27	1.11
2.21	83.03	82.60	82.82	0.27	1.11
2.26	83.04	82.47	82.76	0.27	1.11
2.31	82.93	82.66	82.80	0.27	1.11
2.36	82.91	82.76	82.84	0.27	1.11
2.41	82.95	82.87	82.91	0.27	1.11
2.46	82.83	82.96	82.89	0.27	1.11
2.51	82.69	82.77	82.73	0.27	1.11
2.56	82.89	82.80	82.84	0.27	1.11
2.61	82.84	82.78	82.81	0.27	1.11
2.66	82.89	82.70	82.80	0.27	1.11
2.71	82.84	82.75	82.80	0.27	1.11
2.76	82.88	82.74	82.81	0.27	1.11
2.80	82.86	82.78	82.82	0.27	1.11
2.85	83.01	82.78	82.89	0.27	1.11
2.90	82.91	82.93	82.92	0.27	1.11
2.95	82.81	82.62	82.72	0.27	1.11
3.00	82.88	82.58	82.73	0.27	1.11
3.05	82.86	82.30	82.58	0.27	1.11
3.10	83.27	82.71	82.99	0.27	1.11
3.15	83.03	82.30	82.67	0.26	1.11
3.20	83.02	82.30	82.66	0.26	1.11
3.25	83.15	82.48	82.82	0.27	1.11
3.30	83.10	82.49	82.79	0.27	1.11
3.35	83.07	82.61	82.84	0.27	1.11
3.40	83.03	82.71	82.87	0.27	1.11
3.44	83.07	82.80	82.94	0.27	1.11
3.49	82.78	82.52	82.65	0.27	1.11
3.54	82.88	82.74	82.81	0.27	1.11
3.59	82.84	82.56	82.70	0.27	1.11
3.64	82.82	82.58	82.70	0.27	1.11
3.69	83.02	82.54	82.78	0.27	1.11
3.74	82.90	82.59	82.75	0.27	1.11
3.79	83.23	82.87	83.05	0.27	1.11
3.84	83.02	82.52	82.77	0.27	1.11
3.89	82.98	82.45	82.71	0.27	1.11
3.94	83.09	82.51	82.80	0.27	1.11
3.99	83.22	82.61	82.91	0.27	1.11
4.03	83.00	82.32	82.66	0.27	1.11
4.08	82.99	82.43	82.71	0.27	1.11
4.13	83.02	82.30	82.66	0.27	1.11
4.18	83.08	82.52	82.80	0.27	1.11
4.23	82.93	82.49	82.71	0.27	1.11
4.28	83.10	82.47	82.78	0.27	1.11
4.33	83.29	82.61	82.95	0.27	1.11
4.38	83.00	82.51	82.76	0.27	1.11
4.43	83.11	82.83	82.97	0.27	1.11
4.48	82.86	82.51	82.69	0.27	1.11
4.53	82.81	82.49	82.65	0.27	1.11
4.58	82.86	82.59	82.72	0.27	1.11
4.63	82.84	82.72	82.78	0.27	1.11
4.67	82.84	82.74	82.79	0.27	1.11
4.72	82.83	82.66	82.75	0.27	1.11
4.77	82.77	82.56	82.66	0.27	1.11
4.82	83.01	82.64	82.83	0.27	1.11
4.87	82.89	82.53	82.71	0.27	1.11
4.92	82.84	82.76	82.80	0.27	1.11
4.97	82.84	82.47	82.65	0.27	1.11
5.02	83.06	82.57	82.82	0.27	1.11
5.07	82.75	82.54	82.65	0.27	1.11
5.12	82.97	82.62	82.80	0.27	1.11
5.17	83.18	82.49	82.84	0.27	1.11
5.22	82.91	82.34	82.62	0.26	1.11
5.26	83.10	82.30	82.70	0.26	1.11

5.31	83.07	82.43	82.75	0.27	1.11
5.36	83.16	82.57	82.86	0.27	1.11
5.41	83.10	82.52	82.81	0.27	1.11
5.46	83.14	82.34	82.74	0.26	1.11
5.51	82.99	82.08	82.53	0.26	1.11
5.56	83.16	82.27	82.71	0.26	1.11
5.61	83.17	82.11	82.64	0.26	1.11
5.66	83.60	82.40	83.00	0.26	1.11
5.71	83.23	82.33	82.78	0.26	1.11
5.76	83.12	82.44	82.78	0.27	1.11
5.81	82.84	82.48	82.66	0.27	1.11
5.86	83.00	82.54	82.77	0.27	1.11
5.90	82.93	82.49	82.71	0.27	1.11
5.95	82.90	82.33	82.62	0.27	1.11
6.00	82.94	82.54	82.74	0.27	1.11
6.05	82.92	82.61	82.76	0.27	1.11
6.10	82.88	82.57	82.72	0.27	1.11
6.15	82.96	82.64	82.80	0.27	1.11
6.20	82.94	82.51	82.73	0.27	1.11
6.25	82.88	82.73	82.81	0.27	1.11
6.30	82.89	82.82	82.85	0.27	1.11
6.35	82.84	82.53	82.68	0.27	1.11
6.40	82.97	82.44	82.71	0.27	1.11
6.45	82.95	82.46	82.70	0.27	1.11
6.49	83.12	82.59	82.86	0.27	1.11
6.54	83.02	82.11	82.57	0.26	1.11
6.59	83.12	82.22	82.67	0.26	1.11
6.64	83.18	82.52	82.85	0.27	1.11
6.69	82.72	82.54	82.63	0.27	1.11
6.74	82.60	82.72	82.66	0.27	1.11
6.79	82.59	82.70	82.65	0.27	1.11
6.84	82.60	82.75	82.67	0.27	1.11
6.89	82.74	82.71	82.73	0.27	1.11
6.94	82.82	82.52	82.67	0.27	1.11
6.99	82.88	82.43	82.65	0.27	1.11
7.04	82.87	82.41	82.64	0.27	1.11
7.09	82.78	82.34	82.56	0.27	1.11
7.13	83.04	82.51	82.77	0.27	1.11
7.18	82.93	82.22	82.57	0.26	1.11
7.23	83.15	82.65	82.90	0.27	1.11
7.28	82.75	82.21	82.48	0.27	1.11
7.33	82.85	82.33	82.59	0.27	1.11
7.38	82.94	82.56	82.75	0.27	1.11
7.43	82.95	82.59	82.77	0.27	1.11
7.48	82.70	82.61	82.66	0.27	1.11
7.53	82.85	82.50	82.68	0.27	1.11
7.58	83.07	82.48	82.77	0.27	1.11
7.63	83.13	82.25	82.69	0.26	1.11
7.68	83.31	82.55	82.93	0.27	1.11
7.72	83.00	82.21	82.61	0.26	1.11
7.77	83.11	82.55	82.83	0.27	1.11
7.82	83.01	82.20	82.61	0.26	1.11
7.87	82.87	82.25	82.56	0.26	1.11
7.92	82.89	82.43	82.66	0.27	1.11
7.97	82.73	82.62	82.68	0.27	1.11
8.02	82.89	82.56	82.73	0.27	1.11
8.07	82.65	82.43	82.54	0.27	1.11
8.12	82.87	82.52	82.70	0.27	1.11
8.17	82.92	82.28	82.60	0.27	1.11
8.22	82.81	82.25	82.53	0.27	1.11
8.27	82.91	82.51	82.71	0.27	1.11
8.32	82.70	82.59	82.64	0.27	1.11
8.36	82.65	83.10	82.87	0.27	1.11
8.41	82.48	82.98	82.73	0.28	1.11
8.46	82.44	82.92	82.68	0.27	1.11
8.51	82.69	82.61	82.65	0.27	1.11
8.56	82.91	82.63	82.77	0.27	1.11
8.61	82.84	82.37	82.61	0.27	1.11
8.66	83.01	82.62	82.82	0.27	1.11
8.71	82.67	82.55	82.61	0.27	1.11
8.76	82.71	82.68	82.70	0.27	1.11
8.81	82.50	82.53	82.52	0.27	1.11

8.86	82.58	83.11	82.84	0.28	1.11
8.91	82.46	83.08	82.77	0.28	1.11
8.96	82.26	83.03	82.64	0.28	1.11
9.00	82.36	83.22	82.79	0.28	1.11
9.05	82.32	83.05	82.68	0.28	1.11
9.10	82.35	82.71	82.53	0.27	1.11
9.15	82.72	82.62	82.67	0.27	1.11
9.20	82.83	82.40	82.61	0.27	1.11
9.25	82.99	82.58	82.78	0.27	1.11
9.30	82.95	82.53	82.74	0.27	1.11
9.35	82.77	82.65	82.71	0.27	1.11
9.40	82.79	82.46	82.62	0.27	1.11
9.45	82.90	82.72	82.81	0.27	1.11
9.50	82.84	82.58	82.71	0.27	1.11
9.55	82.92	82.36	82.64	0.27	1.11
9.59	82.97	82.35	82.66	0.26	1.11
9.64	82.90	82.35	82.62	0.27	1.11
9.69	82.78	82.27	82.52	0.27	1.11
9.74	82.66	82.60	82.63	0.27	1.11
9.79	82.64	82.72	82.68	0.27	1.11
9.84	82.75	82.72	82.74	0.27	1.11
9.89	82.71	82.58	82.64	0.27	1.11
9.94	82.86	82.65	82.75	0.27	1.11
9.99	82.67	82.36	82.52	0.27	1.11