

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:59:41 BST 2023

Experiment info

Name	csg524 Treated Sample 5 Measurement 4
Type	Contact angle
Date	18-May-2023 15:52

Solid

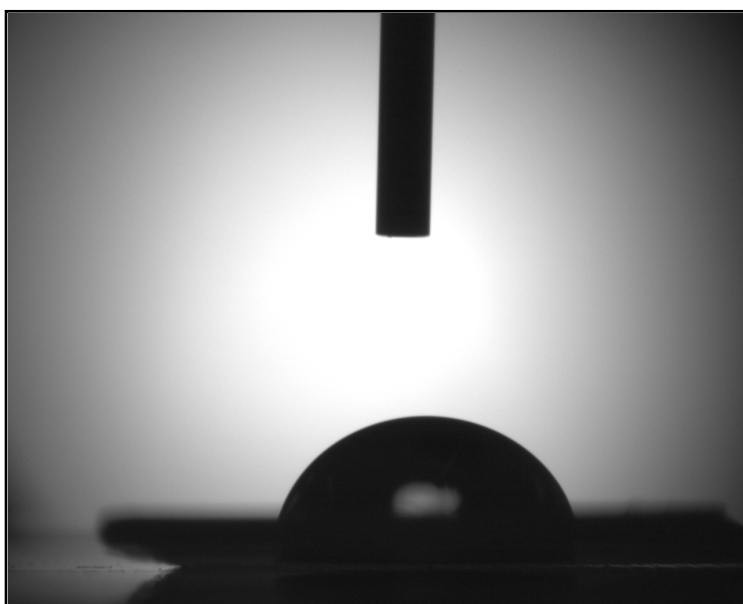
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

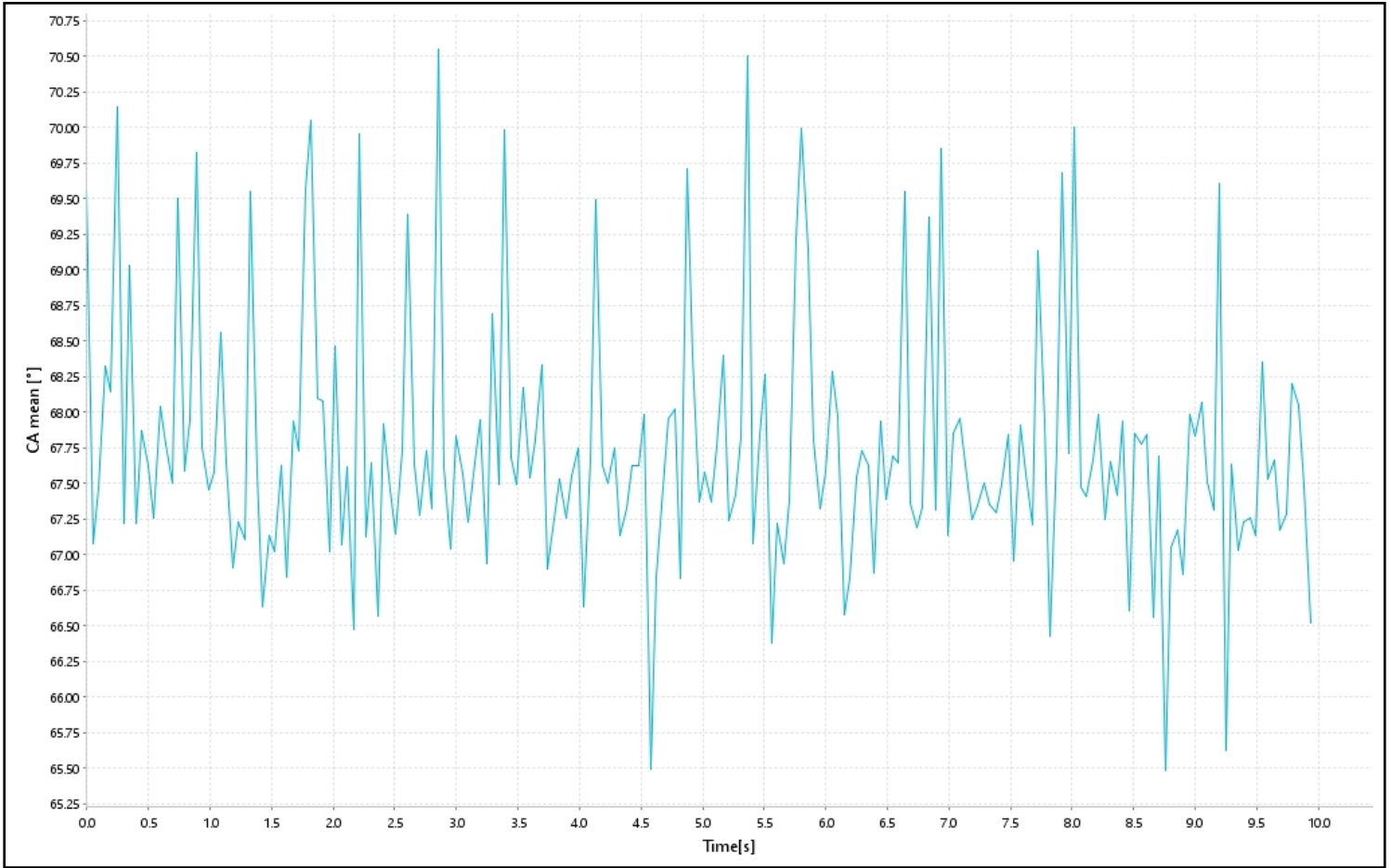
Heavy phase

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	70.29	68.82	69.56	0.18	1.08
0.05	68.04	66.11	67.07	0.16	1.06
0.10	68.68	66.25	67.46	0.16	1.07
0.15	68.79	67.86	68.33	0.17	1.07
0.20	69.06	67.23	68.14	0.17	1.07
0.25	70.54	69.74	70.14	0.18	1.08
0.30	68.10	66.34	67.22	0.16	1.06
0.34	69.51	68.56	69.03	0.17	1.07
0.39	68.01	66.42	67.22	0.16	1.06
0.44	68.79	66.94	67.87	0.17	1.07
0.49	68.66	66.59	67.62	0.16	1.07
0.54	68.08	66.42	67.25	0.16	1.06
0.59	68.92	67.15	68.04	0.17	1.07
0.64	68.62	66.93	67.78	0.17	1.07
0.69	68.35	66.65	67.50	0.16	1.07
0.74	69.48	69.52	69.50	0.19	1.08
0.79	68.38	66.79	67.59	0.17	1.07
0.84	68.65	67.24	67.95	0.18	1.07
0.89	70.24	69.41	69.83	0.18	1.08
0.93	68.93	66.59	67.76	0.16	1.07
0.98	68.71	66.19	67.45	0.16	1.07
1.03	68.92	66.23	67.58	0.16	1.07
1.08	69.40	67.72	68.56	0.17	1.07
1.13	68.44	66.86	67.65	0.17	1.07
1.18	67.64	66.18	66.91	0.16	1.06
1.23	67.91	66.55	67.23	0.17	1.07
1.28	67.81	66.39	67.10	0.16	1.06
1.33	69.89	69.21	69.55	0.18	1.08
1.38	68.50	66.66	67.58	0.16	1.07
1.43	67.61	65.67	66.64	0.15	1.06
1.48	68.22	66.04	67.13	0.16	1.06
1.53	67.97	66.06	67.02	0.16	1.06
1.57	68.59	66.66	67.62	0.16	1.07
1.62	67.59	66.09	66.84	0.16	1.06
1.67	68.60	67.27	67.93	0.17	1.07
1.72	68.28	67.18	67.73	0.17	1.07

1.77	69.80	69.31	69.56	0.18	1.08
1.82	70.40	69.70	70.05	0.18	1.08
1.87	68.83	67.36	68.10	0.17	1.07
1.92	69.01	67.15	68.08	0.17	1.07
1.97	67.82	66.22	67.02	0.16	1.06
2.02	69.35	67.57	68.46	0.17	1.07
2.07	67.85	66.29	67.07	0.16	1.06
2.12	68.58	66.64	67.61	0.16	1.07
2.17	67.30	65.66	66.48	0.16	1.06
2.21	70.62	69.29	69.95	0.18	1.08
2.26	67.93	66.33	67.13	0.16	1.06
2.31	68.48	66.80	67.64	0.16	1.07
2.36	67.34	65.80	66.57	0.16	1.06
2.41	68.76	67.08	67.92	0.17	1.07
2.46	68.19	66.72	67.46	0.17	1.07
2.51	67.80	66.49	67.15	0.16	1.06
2.56	68.63	66.82	67.72	0.16	1.07
2.61	69.68	69.09	69.39	0.18	1.08
2.66	68.65	66.61	67.63	0.16	1.07
2.71	67.77	66.77	67.27	0.17	1.06
2.76	68.21	67.25	67.73	0.17	1.07
2.80	67.79	66.86	67.32	0.17	1.07
2.85	70.69	70.40	70.54	0.19	1.08
2.90	68.11	67.12	67.62	0.17	1.07
2.95	67.83	66.25	67.04	0.16	1.06
3.00	69.06	66.60	67.83	0.16	1.07
3.05	68.85	66.28	67.57	0.16	1.07
3.10	68.24	66.22	67.23	0.16	1.06
3.15	68.61	66.67	67.64	0.16	1.07
3.20	68.88	67.02	67.95	0.17	1.07
3.25	67.46	66.41	66.93	0.16	1.06
3.30	69.64	67.75	68.69	0.17	1.07
3.35	68.28	66.71	67.49	0.17	1.07
3.40	70.20	69.76	69.98	0.18	1.08
3.44	68.48	66.88	67.68	0.17	1.07
3.49	68.05	66.94	67.49	0.17	1.07
3.54	68.90	67.45	68.17	0.17	1.07
3.59	68.46	66.61	67.54	0.16	1.07
3.64	68.81	66.80	67.80	0.16	1.07
3.69	69.03	67.64	68.34	0.17	1.07
3.74	68.19	65.61	66.90	0.15	1.06
3.79	68.45	66.05	67.25	0.15	1.06
3.84	69.01	66.05	67.53	0.15	1.07
3.89	68.42	66.10	67.26	0.16	1.06
3.94	68.23	66.86	67.54	0.17	1.07
3.99	68.38	67.10	67.74	0.17	1.07
4.03	67.16	66.11	66.64	0.17	1.06
4.08	68.28	67.02	67.65	0.17	1.07
4.13	69.64	69.35	69.49	0.18	1.08
4.18	68.47	66.79	67.63	0.16	1.07
4.23	68.35	66.64	67.50	0.16	1.07
4.28	68.69	66.80	67.74	0.16	1.07
4.33	68.14	66.13	67.13	0.16	1.06
4.38	68.14	66.51	67.33	0.16	1.07
4.43	68.60	66.65	67.62	0.16	1.07
4.48	68.46	66.78	67.62	0.16	1.07
4.53	68.57	67.39	67.98	0.17	1.07
4.58	66.05	64.95	65.50	0.15	1.05
4.63	67.77	65.91	66.84	0.16	1.06
4.67	68.47	66.46	67.46	0.16	1.07
4.72	68.96	66.95	67.95	0.17	1.07
4.77	68.99	67.05	68.02	0.17	1.07
4.82	67.75	65.91	66.83	0.16	1.06
4.87	70.11	69.32	69.71	0.18	1.08
4.92	69.33	67.49	68.41	0.17	1.07
4.97	68.27	66.46	67.37	0.16	1.07
5.02	68.45	66.69	67.57	0.16	1.07
5.07	68.11	66.63	67.37	0.16	1.07
5.12	68.63	66.88	67.75	0.16	1.07
5.17	69.51	67.29	68.40	0.17	1.07
5.22	67.91	66.57	67.24	0.16	1.06
5.26	68.29	66.54	67.42	0.16	1.07

5.31	68.86	66.79	67.83	0.17	1.07
5.36	71.10	69.91	70.50	0.19	1.08
5.41	67.96	66.20	67.08	0.16	1.06
5.46	68.71	66.94	67.83	0.17	1.07
5.51	69.33	67.20	68.26	0.17	1.07
5.56	66.85	65.92	66.38	0.15	1.06
5.61	68.28	66.16	67.22	0.16	1.06
5.66	67.85	66.03	66.94	0.16	1.06
5.71	68.38	66.38	67.38	0.16	1.07
5.76	69.58	68.84	69.21	0.18	1.08
5.81	70.27	69.72	69.99	0.18	1.08
5.86	69.61	68.67	69.14	0.18	1.08
5.90	68.60	67.00	67.80	0.17	1.07
5.95	68.25	66.40	67.32	0.16	1.07
6.00	68.51	66.65	67.58	0.16	1.07
6.05	69.23	67.34	68.28	0.17	1.07
6.10	68.91	67.03	67.97	0.17	1.07
6.15	67.39	65.76	66.58	0.16	1.06
6.20	67.62	66.06	66.84	0.16	1.06
6.25	68.37	66.70	67.54	0.16	1.07
6.30	68.58	66.88	67.73	0.17	1.07
6.35	68.48	66.76	67.62	0.17	1.07
6.40	67.66	66.08	66.87	0.16	1.06
6.45	68.70	67.17	67.93	0.17	1.07
6.49	68.45	66.33	67.39	0.16	1.07
6.54	68.73	66.64	67.69	0.16	1.07
6.59	68.59	66.69	67.64	0.17	1.07
6.64	69.80	69.29	69.55	0.18	1.08
6.69	68.32	66.41	67.36	0.16	1.07
6.74	68.20	66.17	67.19	0.16	1.06
6.79	68.34	66.33	67.33	0.16	1.07
6.84	69.72	69.03	69.37	0.18	1.08
6.89	68.06	66.57	67.32	0.16	1.07
6.94	70.49	69.21	69.85	0.18	1.08
6.99	67.95	66.31	67.13	0.16	1.06
7.04	68.80	66.89	67.85	0.17	1.07
7.09	68.64	67.27	67.95	0.17	1.07
7.13	68.61	66.65	67.63	0.16	1.07
7.18	68.15	66.35	67.25	0.16	1.06
7.23	68.15	66.53	67.34	0.16	1.07
7.28	68.47	66.54	67.50	0.16	1.07
7.33	68.36	66.35	67.35	0.16	1.07
7.38	68.38	66.21	67.30	0.16	1.07
7.43	68.50	66.48	67.49	0.16	1.07
7.48	68.72	66.96	67.84	0.17	1.07
7.53	67.77	66.14	66.96	0.16	1.06
7.58	68.85	66.97	67.91	0.17	1.07
7.63	68.43	66.72	67.57	0.16	1.07
7.68	68.07	66.35	67.21	0.16	1.07
7.73	69.46	68.81	69.14	0.17	1.08
7.77	68.80	67.08	67.94	0.17	1.07
7.82	67.28	65.57	66.42	0.16	1.06
7.87	68.55	66.92	67.73	0.17	1.07
7.92	70.22	69.14	69.68	0.18	1.08
7.97	68.57	66.85	67.71	0.16	1.07
8.02	70.49	69.50	70.00	0.18	1.08
8.07	68.48	66.47	67.47	0.16	1.07
8.12	68.25	66.56	67.40	0.17	1.07
8.17	68.45	66.87	67.66	0.17	1.07
8.22	68.93	67.05	67.99	0.17	1.07
8.27	67.99	66.50	67.24	0.16	1.07
8.32	68.33	66.98	67.66	0.17	1.07
8.36	68.23	66.60	67.42	0.17	1.07
8.41	68.92	66.95	67.93	0.17	1.07
8.46	67.43	65.78	66.61	0.16	1.06
8.51	68.71	66.99	67.85	0.16	1.07
8.56	68.84	66.71	67.78	0.16	1.07
8.61	68.82	66.86	67.84	0.16	1.07
8.66	67.48	65.64	66.56	0.16	1.06
8.71	68.54	66.84	67.69	0.17	1.07
8.76	65.88	65.08	65.48	0.15	1.05
8.81	67.88	66.22	67.05	0.16	1.06

8.86	68.06	66.29	67.17	0.16	1.07
8.91	67.63	66.08	66.86	0.16	1.06
8.96	68.71	67.26	67.98	0.17	1.07
9.00	68.84	66.83	67.83	0.17	1.07
9.05	69.04	67.11	68.07	0.17	1.07
9.10	68.38	66.64	67.51	0.16	1.07
9.15	68.18	66.44	67.31	0.16	1.07
9.20	70.02	69.20	69.61	0.18	1.08
9.25	66.07	65.18	65.62	0.15	1.05
9.30	68.44	66.84	67.64	0.16	1.07
9.35	67.86	66.21	67.03	0.16	1.06
9.40	68.10	66.35	67.23	0.16	1.07
9.45	68.02	66.50	67.26	0.16	1.07
9.50	67.81	66.46	67.13	0.16	1.06
9.55	69.37	67.34	68.35	0.17	1.07
9.59	68.42	66.64	67.53	0.16	1.07
9.64	68.63	66.69	67.66	0.16	1.07
9.69	68.14	66.20	67.17	0.16	1.06
9.74	68.19	66.37	67.28	0.16	1.07
9.79	69.06	67.34	68.20	0.17	1.07
9.84	68.99	67.12	68.05	0.17	1.07
9.89	68.35	66.62	67.48	0.16	1.07
9.94	67.29	65.75	66.52	0.16	1.06