

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:23 BST 2023

Experiment info

Name	csg524 Treated Sample 2 Measurement 4
Type	Contact angle
Date	18-May-2023 14:40

Solid

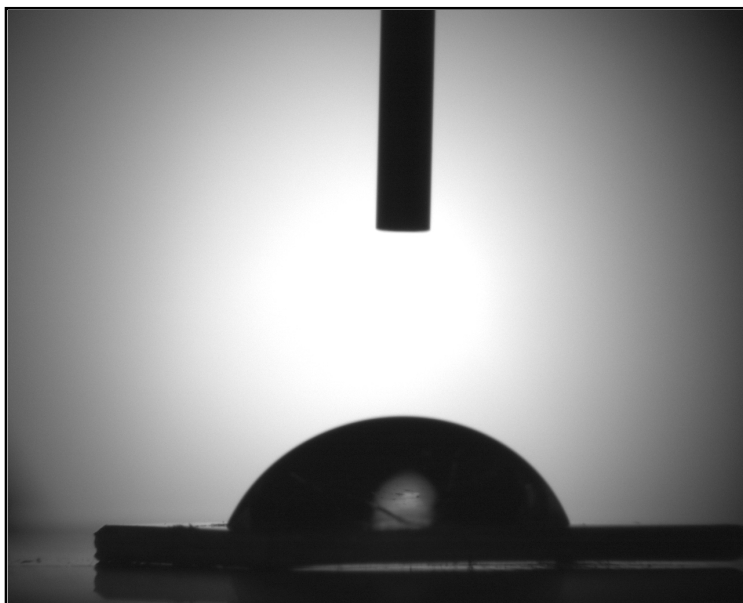
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

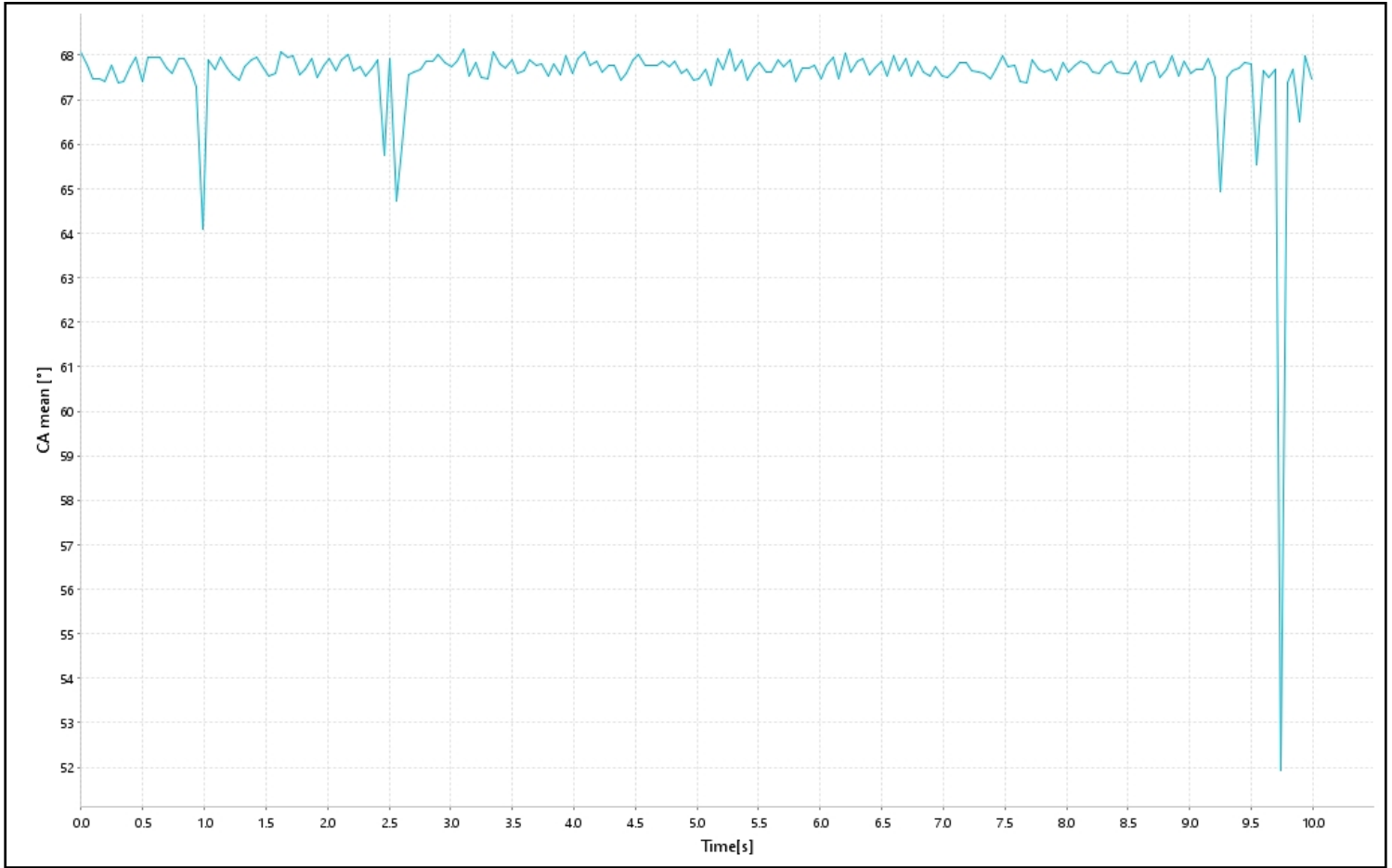
Heavy phase

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	65.55	70.57	68.06	0.39	1.27
0.05	65.37	70.19	67.78	0.38	1.27
0.10	65.18	69.77	67.48	0.37	1.27
0.15	65.03	69.88	67.46	0.38	1.27
0.20	64.95	69.85	67.40	0.38	1.27
0.25	65.16	70.42	67.79	0.38	1.27
0.30	64.85	69.89	67.37	0.38	1.27
0.34	65.00	69.85	67.42	0.38	1.27
0.39	65.29	70.17	67.73	0.38	1.27
0.44	65.44	70.44	67.94	0.39	1.27
0.49	64.96	69.88	67.42	0.38	1.27
0.54	65.37	70.56	67.96	0.39	1.27
0.59	65.41	70.48	67.94	0.39	1.27
0.64	65.74	70.18	67.96	0.38	1.27
0.69	65.34	70.11	67.73	0.38	1.27
0.74	65.10	70.10	67.60	0.38	1.27
0.79	65.48	70.35	67.92	0.38	1.27
0.84	65.40	70.44	67.92	0.38	1.27
0.89	65.23	70.08	67.66	0.38	1.27
0.93	65.00	69.58	67.29	0.37	1.27
0.98	62.41	65.76	64.08	0.33	1.24
1.03	65.40	70.36	67.88	0.38	1.27
1.08	65.33	70.03	67.68	0.38	1.27
1.13	65.48	70.41	67.95	0.38	1.27
1.18	65.26	70.16	67.71	0.38	1.27
1.23	65.11	69.99	67.55	0.38	1.27
1.28	65.00	69.86	67.43	0.38	1.27
1.33	65.40	70.08	67.74	0.38	1.27
1.38	65.46	70.33	67.89	0.38	1.27
1.43	65.41	70.52	67.96	0.38	1.27
1.48	65.30	70.12	67.71	0.38	1.27
1.53	65.21	69.88	67.55	0.38	1.27
1.57	65.15	70.04	67.60	0.38	1.27
1.62	65.64	70.51	68.07	0.38	1.27
1.67	65.48	70.45	67.96	0.38	1.27
1.72	65.49	70.50	68.00	0.38	1.27

1.77	65.19	69.94	67.56	0.38	1.27
1.82	65.26	70.08	67.67	0.38	1.27
1.87	65.40	70.44	67.92	0.38	1.27
1.92	65.15	69.82	67.49	0.38	1.27
1.97	65.42	70.12	67.77	0.38	1.27
2.02	65.39	70.45	67.92	0.38	1.27
2.07	65.23	70.05	67.64	0.38	1.27
2.12	65.39	70.42	67.90	0.38	1.27
2.17	65.57	70.48	68.02	0.38	1.27
2.21	65.24	70.05	67.65	0.38	1.27
2.26	65.36	70.10	67.73	0.38	1.27
2.31	65.20	69.89	67.55	0.38	1.27
2.36	65.34	70.09	67.72	0.38	1.27
2.41	65.50	70.30	67.90	0.38	1.27
2.46	63.73	67.77	65.75	0.36	1.25
2.51	65.54	70.31	67.93	0.39	1.27
2.56	62.91	66.56	64.74	0.34	1.25
2.61	63.92	67.97	65.95	0.36	1.26
2.66	65.24	69.87	67.55	0.38	1.27
2.71	65.24	69.99	67.62	0.38	1.27
2.76	65.25	70.10	67.67	0.38	1.27
2.80	65.71	70.02	67.87	0.37	1.27
2.85	65.40	70.33	67.87	0.38	1.27
2.90	64.99	71.05	68.02	0.40	1.27
2.95	65.30	70.36	67.83	0.39	1.27
3.00	65.29	70.18	67.74	0.38	1.27
3.05	65.35	70.38	67.87	0.38	1.27
3.10	65.85	70.40	68.12	0.38	1.27
3.15	65.23	69.82	67.52	0.37	1.27
3.20	65.37	70.31	67.84	0.38	1.27
3.25	65.19	69.81	67.50	0.38	1.27
3.30	65.08	69.86	67.47	0.37	1.27
3.35	65.67	70.45	68.06	0.38	1.27
3.40	65.45	70.18	67.82	0.38	1.27
3.44	65.32	70.11	67.72	0.38	1.27
3.49	65.37	70.42	67.90	0.38	1.27
3.54	65.10	70.11	67.60	0.38	1.27
3.59	65.42	69.88	67.65	0.38	1.27
3.64	65.70	70.09	67.89	0.38	1.27
3.69	65.57	70.00	67.78	0.37	1.27
3.74	65.49	70.10	67.79	0.38	1.27
3.79	65.16	69.89	67.53	0.38	1.27
3.84	65.33	70.26	67.79	0.38	1.27
3.89	65.23	69.87	67.55	0.38	1.27
3.94	65.60	70.36	67.98	0.38	1.27
3.99	65.29	69.92	67.61	0.37	1.27
4.03	65.96	69.91	67.93	0.37	1.27
4.08	65.98	70.19	68.08	0.37	1.27
4.13	65.50	70.06	67.78	0.38	1.27
4.18	65.64	70.08	67.86	0.38	1.27
4.23	65.10	70.16	67.63	0.38	1.27
4.28	65.30	70.24	67.77	0.38	1.27
4.33	65.27	70.25	67.76	0.38	1.27
4.38	65.03	69.86	67.45	0.38	1.27
4.43	65.21	70.00	67.61	0.38	1.27
4.48	65.43	70.38	67.91	0.39	1.27
4.53	65.39	70.63	68.01	0.39	1.27
4.58	65.32	70.23	67.78	0.38	1.27
4.63	65.26	70.26	67.76	0.38	1.27
4.67	65.31	70.22	67.76	0.38	1.27
4.72	65.53	70.21	67.87	0.38	1.27
4.77	65.19	70.27	67.73	0.38	1.27
4.82	65.39	70.36	67.87	0.38	1.27
4.87	65.16	70.04	67.60	0.38	1.27
4.92	65.28	70.08	67.68	0.38	1.27
4.97	65.02	69.83	67.43	0.38	1.27
5.02	65.11	69.83	67.47	0.38	1.27
5.07	65.34	70.04	67.69	0.38	1.27
5.12	64.95	69.72	67.34	0.38	1.27
5.17	65.52	70.31	67.91	0.38	1.27
5.22	65.30	70.09	67.69	0.38	1.27
5.26	65.69	70.56	68.12	0.38	1.27

5.31	65.23	70.09	67.66	0.38	1.27
5.36	65.38	70.40	67.89	0.38	1.27
5.41	64.97	69.91	67.44	0.38	1.27
5.46	65.27	70.16	67.72	0.38	1.27
5.51	65.44	70.20	67.82	0.38	1.27
5.56	65.22	70.05	67.63	0.38	1.27
5.61	65.19	70.04	67.61	0.39	1.27
5.66	65.38	70.39	67.88	0.38	1.27
5.71	65.32	70.17	67.74	0.38	1.27
5.76	65.39	70.37	67.88	0.38	1.27
5.81	65.00	69.81	67.40	0.38	1.27
5.86	65.33	70.07	67.70	0.38	1.27
5.90	65.29	70.15	67.72	0.38	1.27
5.95	65.31	70.25	67.78	0.38	1.27
6.00	65.06	69.87	67.46	0.38	1.27
6.05	65.39	70.14	67.76	0.38	1.27
6.10	65.48	70.44	67.96	0.38	1.27
6.15	65.10	69.85	67.47	0.38	1.27
6.20	65.56	70.52	68.04	0.39	1.27
6.25	65.08	70.17	67.63	0.39	1.27
6.30	65.18	70.57	67.87	0.39	1.27
6.35	65.43	70.43	67.93	0.39	1.27
6.40	65.18	69.94	67.56	0.38	1.27
6.45	65.20	70.25	67.73	0.38	1.27
6.50	65.30	70.44	67.87	0.38	1.27
6.54	65.11	69.97	67.54	0.38	1.27
6.59	65.52	70.47	68.00	0.38	1.27
6.64	65.29	70.00	67.64	0.38	1.27
6.69	65.42	70.40	67.91	0.38	1.27
6.74	65.17	69.91	67.54	0.38	1.27
6.79	65.35	70.40	67.88	0.38	1.27
6.84	65.21	70.04	67.62	0.38	1.27
6.89	65.13	69.93	67.53	0.38	1.27
6.94	65.29	70.18	67.73	0.38	1.27
6.99	65.13	69.96	67.55	0.38	1.27
7.04	65.16	69.87	67.51	0.38	1.27
7.09	65.27	70.03	67.65	0.38	1.27
7.13	65.45	70.22	67.84	0.38	1.27
7.18	65.43	70.23	67.83	0.38	1.27
7.23	65.21	70.09	67.65	0.38	1.27
7.28	65.22	70.05	67.64	0.38	1.27
7.33	65.24	69.96	67.60	0.38	1.27
7.38	65.09	69.86	67.47	0.38	1.27
7.43	65.39	70.01	67.70	0.38	1.27
7.48	65.58	70.41	68.00	0.38	1.27
7.53	65.32	70.15	67.74	0.38	1.27
7.58	65.40	70.17	67.79	0.38	1.27
7.63	65.07	69.74	67.41	0.38	1.27
7.68	64.93	69.84	67.39	0.37	1.27
7.73	65.44	70.33	67.88	0.38	1.27
7.77	65.20	70.19	67.69	0.38	1.27
7.82	65.19	70.03	67.61	0.38	1.27
7.87	65.26	70.11	67.69	0.38	1.27
7.92	65.01	69.88	67.45	0.38	1.27
7.97	65.44	70.24	67.84	0.38	1.27
8.02	65.19	70.04	67.61	0.38	1.27
8.07	65.27	70.27	67.77	0.38	1.27
8.12	65.38	70.37	67.87	0.38	1.27
8.17	65.39	70.24	67.82	0.38	1.27
8.22	65.27	70.00	67.64	0.38	1.27
8.27	65.24	69.97	67.60	0.38	1.27
8.32	65.32	70.22	67.77	0.38	1.27
8.36	65.39	70.33	67.86	0.38	1.27
8.41	65.20	70.03	67.61	0.38	1.27
8.46	65.22	69.98	67.60	0.38	1.27
8.51	65.17	70.00	67.59	0.38	1.27
8.56	65.45	70.26	67.85	0.38	1.27
8.61	65.02	69.79	67.40	0.38	1.27
8.66	65.39	70.19	67.79	0.38	1.27
8.71	65.37	70.34	67.86	0.38	1.27
8.76	65.08	69.92	67.50	0.38	1.27
8.81	65.23	70.11	67.67	0.38	1.27

8.86	65.54	70.41	67.97	0.38	1.27
8.91	65.19	69.87	67.53	0.38	1.27
8.96	65.48	70.23	67.85	0.38	1.27
9.00	65.22	69.97	67.59	0.38	1.27
9.05	65.33	70.06	67.70	0.38	1.27
9.10	65.22	70.14	67.68	0.38	1.27
9.15	65.44	70.39	67.91	0.38	1.27
9.20	65.09	69.91	67.50	0.38	1.27
9.25	63.17	66.72	64.94	0.34	1.25
9.30	65.19	69.84	67.51	0.38	1.27
9.35	65.25	70.09	67.67	0.38	1.27
9.40	65.23	70.22	67.72	0.38	1.27
9.45	65.52	70.18	67.85	0.38	1.27
9.50	65.35	70.23	67.79	0.38	1.27
9.55	62.53	68.58	65.55	0.43	1.28
9.59	65.18	70.10	67.64	0.38	1.27
9.64	65.07	69.91	67.49	0.38	1.27
9.69	65.27	70.08	67.68	0.38	1.27
9.74	49.06	54.77	51.91	0.17	1.23
9.79	64.92	69.86	67.39	0.38	1.27
9.84	65.25	70.13	67.69	0.38	1.27
9.89	63.68	69.31	66.50	0.42	1.28
9.94	65.54	70.42	67.98	0.38	1.27
9.99	65.18	69.79	67.49	0.38	1.27