

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:53 BST 2023

Experiment info

Name	csg524 Treated Sample 3 Measurement 4
Type	Contact angle
Date	18-May-2023 15:13

Solid

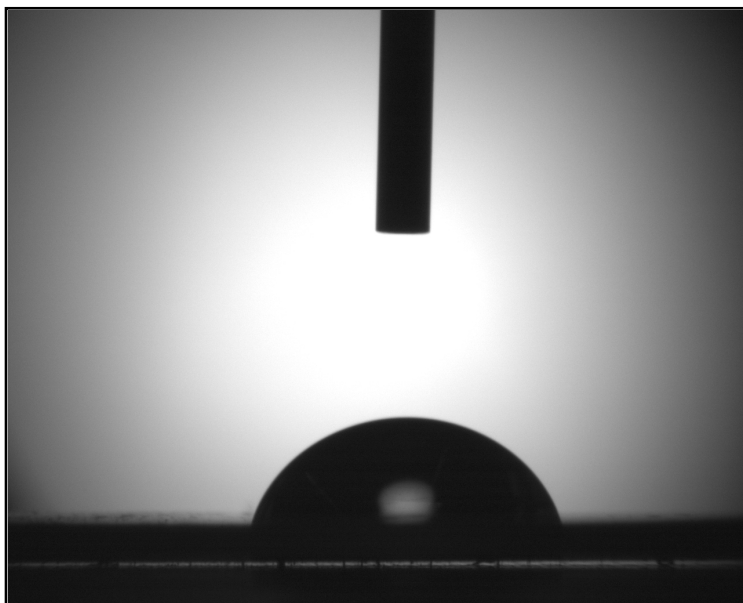
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

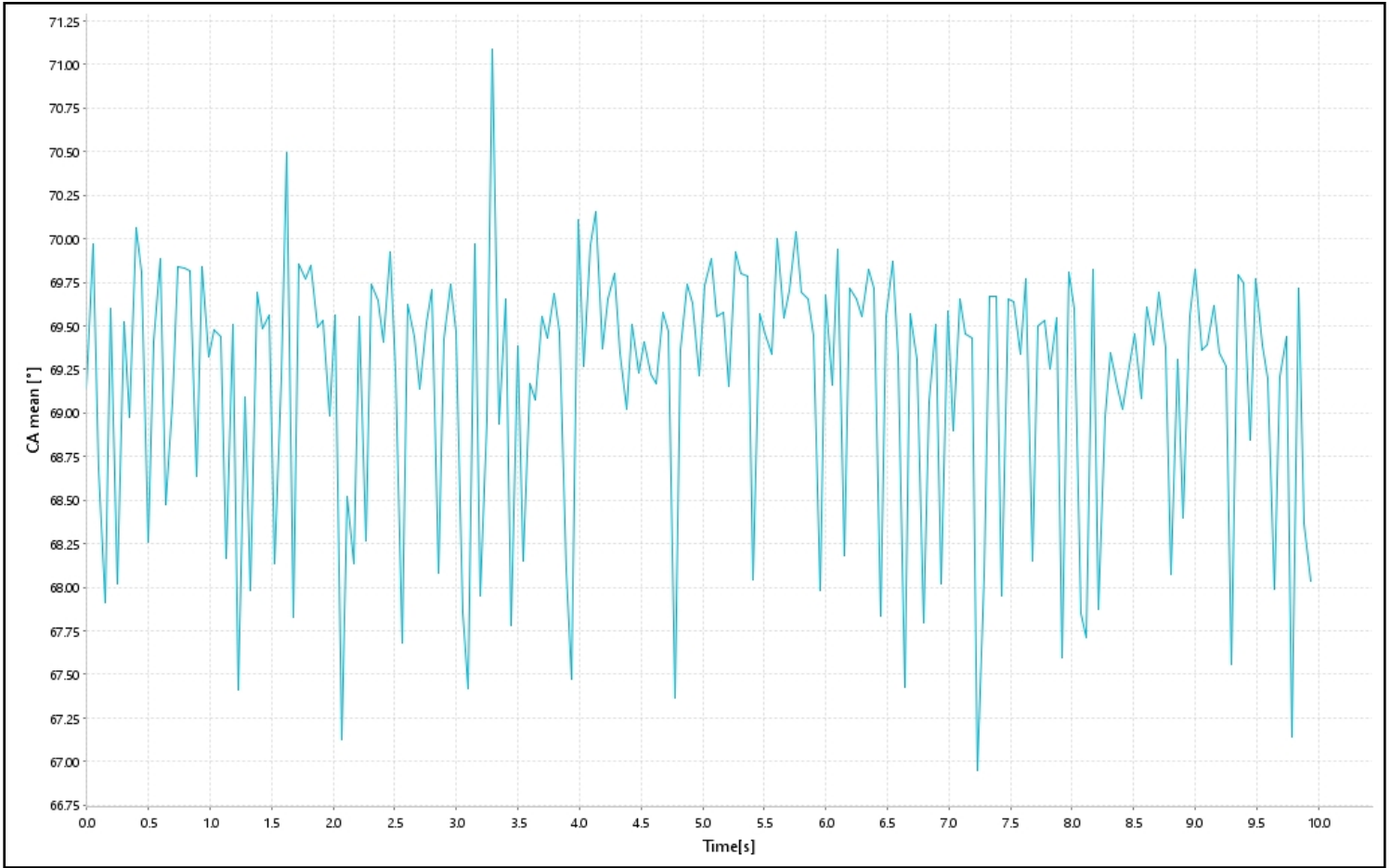
Heavy phase

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	69.14	69.16	69.15	0.22	1.13
0.05	69.94	70.01	69.97	0.23	1.13
0.10	68.64	68.74	68.69	0.22	1.13
0.15	67.43	68.39	67.91	0.22	1.12
0.20	69.52	69.67	69.60	0.23	1.13
0.25	67.73	68.31	68.02	0.22	1.12
0.30	69.48	69.56	69.52	0.23	1.13
0.34	68.97	68.98	68.98	0.22	1.13
0.39	70.04	70.09	70.07	0.23	1.13
0.44	69.90	69.71	69.80	0.22	1.13
0.49	68.45	68.07	68.26	0.20	1.13
0.54	69.77	69.04	69.41	0.22	1.13
0.59	70.17	69.60	69.89	0.22	1.13
0.64	68.24	68.72	68.48	0.22	1.13
0.69	69.12	68.99	69.06	0.22	1.13
0.74	69.65	70.03	69.84	0.23	1.13
0.79	69.85	69.82	69.83	0.23	1.13
0.84	69.75	69.88	69.81	0.23	1.13
0.89	68.32	68.96	68.64	0.22	1.13
0.93	69.93	69.75	69.84	0.23	1.13
0.98	69.37	69.27	69.32	0.22	1.13
1.03	69.43	69.52	69.48	0.22	1.13
1.08	69.39	69.49	69.44	0.22	1.13
1.13	67.96	68.37	68.16	0.21	1.12
1.18	69.46	69.56	69.51	0.22	1.13
1.23	67.01	67.81	67.41	0.21	1.12
1.28	69.16	69.02	69.09	0.22	1.13
1.33	67.65	68.32	67.98	0.21	1.12
1.38	69.77	69.62	69.69	0.23	1.13
1.43	69.47	69.51	69.49	0.22	1.13
1.48	69.66	69.47	69.56	0.22	1.13
1.53	67.75	68.52	68.13	0.21	1.12
1.57	69.24	69.16	69.20	0.22	1.13
1.62	70.34	70.65	70.50	0.23	1.14
1.67	67.44	68.21	67.83	0.21	1.12
1.72	69.81	69.90	69.85	0.23	1.13

1.77	69.82	69.73	69.77	0.23	1.13
1.82	69.82	69.87	69.85	0.23	1.13
1.87	69.46	69.52	69.49	0.22	1.13
1.92	69.51	69.54	69.53	0.22	1.13
1.97	69.00	68.98	68.99	0.22	1.13
2.02	69.60	69.52	69.56	0.22	1.13
2.07	66.77	67.49	67.13	0.21	1.12
2.12	68.19	68.86	68.52	0.22	1.13
2.16	67.70	68.57	68.13	0.22	1.13
2.21	69.58	69.53	69.55	0.22	1.13
2.26	67.71	68.82	68.27	0.22	1.13
2.31	69.68	69.79	69.74	0.23	1.13
2.36	69.69	69.60	69.64	0.22	1.13
2.41	69.46	69.35	69.41	0.22	1.13
2.46	70.07	69.78	69.92	0.23	1.13
2.51	69.19	69.30	69.25	0.22	1.13
2.56	67.36	68.00	67.68	0.21	1.12
2.61	69.64	69.59	69.62	0.22	1.13
2.66	69.44	69.43	69.44	0.22	1.13
2.71	69.20	69.08	69.14	0.22	1.13
2.76	69.44	69.59	69.51	0.22	1.13
2.80	69.75	69.67	69.71	0.23	1.13
2.85	67.79	68.37	68.08	0.21	1.12
2.90	69.40	69.45	69.43	0.22	1.13
2.95	69.83	69.65	69.74	0.23	1.13
3.00	69.52	69.42	69.47	0.22	1.13
3.05	67.55	68.17	67.86	0.21	1.12
3.10	67.15	67.68	67.42	0.21	1.12
3.15	70.01	69.93	69.97	0.23	1.14
3.20	67.79	68.11	67.95	0.21	1.12
3.25	68.93	68.99	68.96	0.22	1.13
3.30	70.92	71.25	71.08	0.24	1.14
3.35	69.00	68.87	68.93	0.22	1.13
3.40	69.55	69.76	69.65	0.23	1.13
3.44	67.55	68.01	67.78	0.21	1.12
3.49	69.37	69.40	69.39	0.22	1.13
3.54	67.85	68.45	68.15	0.21	1.13
3.59	69.29	69.05	69.17	0.22	1.13
3.64	69.00	69.15	69.07	0.22	1.13
3.69	69.57	69.54	69.55	0.22	1.13
3.74	69.43	69.43	69.43	0.22	1.13
3.79	69.67	69.70	69.68	0.23	1.13
3.84	69.45	69.47	69.46	0.22	1.13
3.89	67.69	68.53	68.11	0.21	1.12
3.94	67.11	67.83	67.47	0.21	1.12
3.99	70.10	70.12	70.11	0.23	1.14
4.03	69.18	69.36	69.27	0.22	1.13
4.08	69.89	70.03	69.96	0.23	1.13
4.13	70.15	70.16	70.16	0.23	1.14
4.18	69.35	69.38	69.37	0.22	1.13
4.23	69.58	69.73	69.66	0.23	1.13
4.28	69.82	69.79	69.80	0.23	1.13
4.33	69.36	69.32	69.34	0.22	1.13
4.38	69.04	69.01	69.02	0.22	1.13
4.43	69.34	69.68	69.51	0.23	1.13
4.48	69.34	69.11	69.23	0.22	1.13
4.53	69.46	69.35	69.41	0.22	1.13
4.58	69.28	69.16	69.22	0.22	1.13
4.63	69.18	69.15	69.16	0.22	1.13
4.67	69.47	69.67	69.57	0.23	1.13
4.72	69.44	69.49	69.47	0.22	1.13
4.77	67.06	67.67	67.36	0.21	1.12
4.82	69.46	69.27	69.36	0.22	1.13
4.87	69.75	69.72	69.74	0.23	1.13
4.92	69.77	69.48	69.63	0.22	1.13
4.97	69.30	69.14	69.22	0.22	1.13
5.02	69.82	69.64	69.73	0.23	1.13
5.07	69.76	70.01	69.88	0.23	1.14
5.12	69.66	69.45	69.55	0.22	1.13
5.17	69.57	69.59	69.58	0.22	1.13
5.22	69.23	69.08	69.15	0.22	1.13
5.27	69.89	69.97	69.93	0.23	1.13

5.31	69.88	69.72	69.80	0.23	1.13
5.36	69.73	69.84	69.78	0.23	1.13
5.41	67.81	68.28	68.04	0.21	1.12
5.46	69.81	69.33	69.57	0.22	1.13
5.51	69.52	69.38	69.45	0.22	1.13
5.56	69.51	69.17	69.34	0.22	1.13
5.61	70.06	69.93	70.00	0.23	1.14
5.66	69.64	69.44	69.54	0.22	1.13
5.71	69.70	69.70	69.70	0.23	1.13
5.76	69.98	70.09	70.04	0.23	1.14
5.81	69.51	69.88	69.70	0.23	1.13
5.86	69.83	69.47	69.65	0.22	1.13
5.90	69.43	69.46	69.45	0.22	1.13
5.95	67.55	68.41	67.98	0.21	1.12
6.00	69.65	69.71	69.68	0.23	1.13
6.05	69.12	69.21	69.16	0.22	1.13
6.10	69.97	69.91	69.94	0.23	1.13
6.15	67.96	68.39	68.18	0.22	1.13
6.20	69.79	69.65	69.72	0.23	1.13
6.25	69.66	69.64	69.65	0.23	1.13
6.30	69.53	69.57	69.55	0.22	1.13
6.35	69.83	69.82	69.83	0.23	1.13
6.40	69.84	69.60	69.72	0.23	1.13
6.45	67.36	68.32	67.84	0.21	1.12
6.49	69.40	69.71	69.55	0.23	1.13
6.54	69.72	70.02	69.87	0.23	1.13
6.59	69.34	69.30	69.32	0.22	1.13
6.64	67.04	67.81	67.42	0.21	1.12
6.69	69.61	69.53	69.57	0.22	1.13
6.74	69.36	69.25	69.31	0.22	1.13
6.79	67.49	68.10	67.80	0.21	1.12
6.84	69.09	69.03	69.06	0.22	1.13
6.89	69.43	69.59	69.51	0.22	1.13
6.94	67.65	68.38	68.02	0.21	1.12
6.99	69.61	69.56	69.59	0.23	1.13
7.04	68.85	68.95	68.90	0.22	1.13
7.09	69.75	69.56	69.66	0.23	1.13
7.13	69.44	69.47	69.46	0.22	1.13
7.18	69.35	69.52	69.43	0.22	1.13
7.23	66.61	67.28	66.95	0.21	1.12
7.28	67.78	68.35	68.06	0.21	1.12
7.33	69.69	69.65	69.67	0.23	1.13
7.38	69.73	69.61	69.67	0.23	1.13
7.43	67.66	68.25	67.95	0.21	1.12
7.48	69.59	69.71	69.65	0.23	1.13
7.53	69.63	69.65	69.64	0.23	1.13
7.58	69.30	69.38	69.34	0.22	1.13
7.63	69.80	69.74	69.77	0.23	1.13
7.68	67.85	68.46	68.15	0.21	1.12
7.72	69.51	69.48	69.50	0.22	1.13
7.77	69.56	69.49	69.53	0.22	1.13
7.82	69.39	69.12	69.26	0.22	1.13
7.87	69.48	69.62	69.55	0.22	1.13
7.92	67.30	67.89	67.60	0.21	1.12
7.97	69.97	69.64	69.81	0.23	1.13
8.02	69.67	69.53	69.60	0.23	1.13
8.07	67.66	68.04	67.85	0.21	1.12
8.12	67.41	68.01	67.71	0.21	1.12
8.17	69.82	69.83	69.83	0.23	1.13
8.22	67.50	68.25	67.88	0.21	1.12
8.27	69.03	68.93	68.98	0.22	1.13
8.32	69.30	69.40	69.35	0.22	1.13
8.36	69.17	69.14	69.16	0.22	1.13
8.41	69.12	68.92	69.02	0.22	1.13
8.46	69.28	69.26	69.27	0.22	1.13
8.51	69.49	69.42	69.45	0.22	1.13
8.56	69.17	69.00	69.09	0.22	1.13
8.61	69.80	69.42	69.61	0.22	1.13
8.66	69.44	69.34	69.39	0.22	1.13
8.71	69.73	69.66	69.69	0.23	1.13
8.76	69.47	69.29	69.38	0.22	1.13
8.81	67.73	68.42	68.07	0.21	1.12

8.86	69.29	69.33	69.31	0.22	1.13
8.91	68.05	68.74	68.40	0.22	1.13
8.96	69.52	69.59	69.56	0.22	1.13
9.00	69.85	69.80	69.83	0.23	1.13
9.05	69.26	69.46	69.36	0.22	1.13
9.10	69.49	69.29	69.39	0.22	1.13
9.15	69.60	69.63	69.62	0.22	1.13
9.20	69.40	69.28	69.34	0.22	1.13
9.25	69.29	69.26	69.27	0.22	1.13
9.30	67.12	67.99	67.55	0.21	1.12
9.35	69.88	69.71	69.79	0.23	1.13
9.40	69.74	69.76	69.75	0.23	1.13
9.45	68.95	68.73	68.84	0.22	1.13
9.50	69.71	69.82	69.77	0.23	1.13
9.55	69.41	69.38	69.39	0.22	1.13
9.59	69.11	69.28	69.20	0.22	1.13
9.64	67.68	68.30	67.99	0.21	1.12
9.69	69.12	69.29	69.20	0.22	1.13
9.74	69.38	69.49	69.44	0.22	1.13
9.79	66.77	67.51	67.14	0.21	1.12
9.84	69.67	69.77	69.72	0.23	1.13
9.89	68.08	68.65	68.37	0.22	1.13
9.94	67.78	68.29	68.04	0.21	1.12