

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:36:13 BST 2023

Experiment info

Name	csg524 Sample 5 Measurement 4
Type	Contact angle
Date	16-May-2023 14:30

Solid

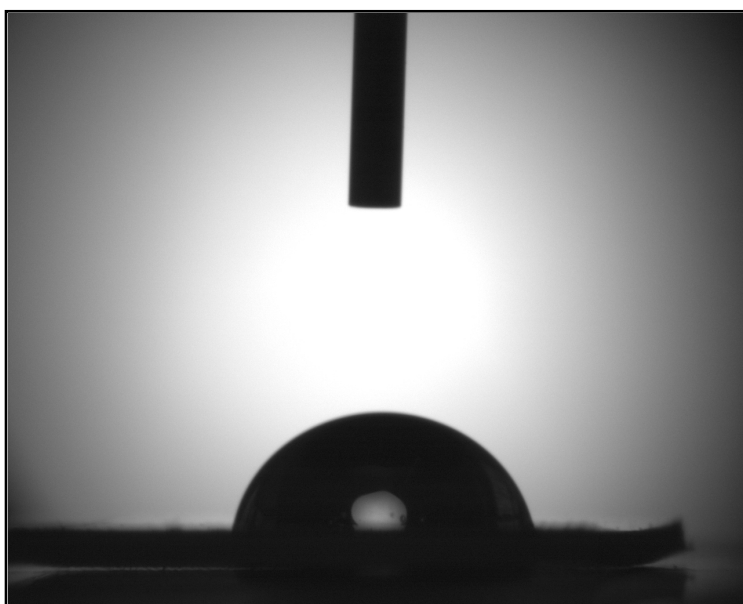
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

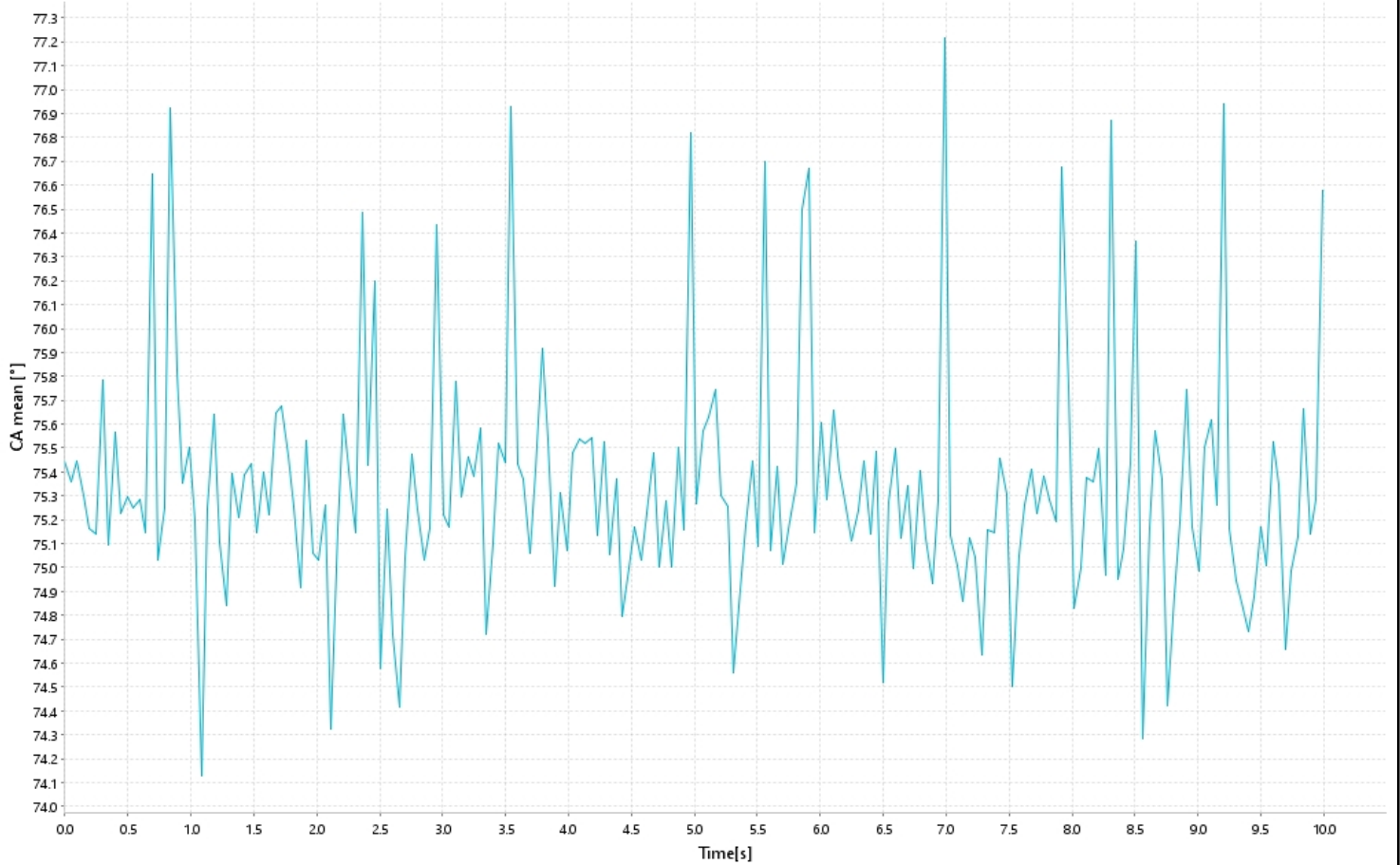
Heavy phase

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	76.21	74.68	75.45	0.21	1.10
0.05	76.11	74.60	75.36	0.21	1.10
0.10	76.10	74.79	75.45	0.21	1.10
0.15	76.07	74.54	75.30	0.21	1.10
0.20	75.96	74.37	75.16	0.21	1.10
0.25	75.88	74.40	75.14	0.21	1.10
0.30	76.54	75.03	75.78	0.21	1.10
0.34	75.84	74.34	75.09	0.21	1.10
0.39	76.29	74.84	75.56	0.21	1.10
0.44	75.96	74.50	75.23	0.21	1.10
0.49	75.95	74.64	75.30	0.21	1.10
0.54	75.93	74.57	75.25	0.21	1.10
0.59	76.06	74.52	75.29	0.21	1.10
0.64	75.87	74.43	75.15	0.21	1.10
0.69	77.78	75.51	76.65	0.22	1.11
0.74	75.87	74.19	75.03	0.21	1.10
0.79	76.01	74.49	75.25	0.21	1.10
0.84	77.81	76.03	76.92	0.22	1.11
0.89	76.49	75.15	75.82	0.21	1.10
0.93	76.13	74.58	75.35	0.21	1.10
0.98	76.41	74.60	75.51	0.21	1.10
1.03	75.89	74.50	75.20	0.21	1.10
1.08	74.80	73.46	74.13	0.20	1.10
1.13	76.03	74.46	75.25	0.21	1.10
1.18	76.59	74.69	75.64	0.21	1.10
1.23	75.88	74.33	75.11	0.20	1.10
1.28	75.74	73.94	74.84	0.20	1.10
1.33	76.13	74.65	75.39	0.21	1.10
1.38	75.84	74.58	75.21	0.21	1.10
1.43	76.13	74.65	75.39	0.21	1.10
1.48	76.15	74.71	75.43	0.22	1.10
1.53	75.69	74.60	75.15	0.21	1.10
1.57	76.09	74.71	75.40	0.21	1.10
1.62	75.72	74.72	75.22	0.21	1.10
1.67	76.21	75.09	75.65	0.22	1.10
1.72	76.32	75.03	75.67	0.22	1.10

1.77	76.06	74.89	75.47	0.21	1.10
1.82	75.84	74.67	75.26	0.21	1.10
1.87	75.54	74.29	74.91	0.21	1.10
1.92	76.15	74.91	75.53	0.21	1.10
1.97	75.69	74.43	75.06	0.21	1.10
2.02	75.80	74.27	75.03	0.21	1.10
2.07	75.81	74.71	75.26	0.21	1.10
2.12	74.87	73.78	74.32	0.21	1.10
2.17	75.69	74.62	75.16	0.21	1.10
2.21	76.27	75.02	75.64	0.21	1.10
2.26	76.06	74.65	75.36	0.21	1.10
2.31	75.78	74.51	75.15	0.21	1.10
2.36	76.90	76.07	76.49	0.22	1.11
2.41	76.15	74.70	75.43	0.21	1.10
2.46	76.91	75.49	76.20	0.22	1.10
2.51	75.25	73.90	74.58	0.20	1.10
2.56	76.00	74.49	75.24	0.21	1.10
2.61	75.38	74.06	74.72	0.21	1.10
2.66	75.06	73.77	74.42	0.20	1.10
2.71	75.12	74.96	75.04	0.22	1.10
2.76	76.16	74.78	75.47	0.21	1.10
2.80	75.92	74.57	75.24	0.21	1.10
2.85	75.71	74.36	75.03	0.21	1.10
2.90	75.80	74.53	75.17	0.21	1.10
2.95	77.38	75.48	76.43	0.22	1.11
3.00	75.82	74.62	75.22	0.21	1.10
3.05	75.93	74.41	75.17	0.21	1.10
3.10	76.51	75.05	75.78	0.21	1.10
3.15	76.11	74.48	75.30	0.21	1.10
3.20	76.13	74.80	75.46	0.21	1.10
3.25	76.12	74.64	75.38	0.21	1.10
3.30	76.27	74.90	75.58	0.21	1.10
3.35	75.50	73.94	74.72	0.21	1.10
3.40	75.78	74.42	75.10	0.21	1.10
3.44	76.26	74.78	75.52	0.21	1.10
3.49	76.04	74.84	75.44	0.21	1.10
3.54	77.86	75.99	76.93	0.22	1.11
3.59	76.09	74.77	75.43	0.21	1.10
3.64	76.07	74.67	75.37	0.21	1.10
3.69	75.86	74.26	75.06	0.21	1.10
3.74	76.13	74.68	75.40	0.21	1.10
3.79	76.60	75.22	75.91	0.22	1.10
3.84	76.10	74.98	75.54	0.21	1.10
3.89	75.54	74.31	74.92	0.21	1.10
3.94	76.00	74.62	75.31	0.21	1.10
3.99	75.71	74.44	75.07	0.21	1.10
4.03	76.14	74.82	75.48	0.21	1.10
4.08	76.16	74.91	75.54	0.21	1.10
4.13	76.14	74.91	75.52	0.21	1.10
4.18	76.08	75.01	75.54	0.22	1.10
4.23	75.59	74.68	75.13	0.21	1.10
4.28	76.11	74.94	75.53	0.22	1.10
4.33	75.61	74.49	75.05	0.21	1.10
4.38	75.94	74.80	75.37	0.21	1.10
4.43	75.36	74.23	74.79	0.21	1.10
4.48	75.46	74.54	75.00	0.21	1.10
4.53	75.73	74.61	75.17	0.21	1.10
4.58	75.61	74.44	75.03	0.21	1.10
4.63	75.74	74.71	75.22	0.21	1.10
4.67	76.16	74.79	75.48	0.21	1.10
4.72	75.87	74.13	75.00	0.21	1.10
4.77	75.90	74.66	75.28	0.21	1.10
4.82	75.77	74.23	75.00	0.21	1.10
4.87	76.24	74.77	75.50	0.21	1.10
4.92	75.93	74.38	75.16	0.21	1.10
4.97	77.85	75.78	76.82	0.22	1.11
5.02	75.91	74.62	75.26	0.21	1.10
5.07	76.14	75.00	75.57	0.21	1.10
5.12	76.38	74.88	75.63	0.21	1.10
5.17	76.40	75.09	75.74	0.21	1.10
5.22	76.03	74.58	75.30	0.21	1.10
5.26	76.01	74.50	75.25	0.21	1.10

5.31	75.26	73.86	74.56	0.21	1.10
5.36	75.58	74.24	74.91	0.21	1.10
5.41	75.79	74.56	75.18	0.21	1.10
5.46	76.13	74.76	75.44	0.21	1.10
5.51	75.72	74.46	75.09	0.21	1.10
5.56	77.64	75.76	76.70	0.23	1.11
5.61	75.75	74.39	75.07	0.21	1.10
5.66	76.11	74.73	75.42	0.21	1.10
5.71	75.69	74.34	75.02	0.21	1.10
5.76	75.80	74.58	75.19	0.21	1.10
5.81	76.01	74.70	75.35	0.21	1.10
5.86	77.51	75.48	76.50	0.22	1.10
5.90	77.21	76.13	76.67	0.22	1.11
5.95	75.84	74.45	75.15	0.21	1.10
6.00	76.27	74.94	75.61	0.21	1.10
6.05	75.87	74.70	75.29	0.21	1.10
6.10	76.32	75.00	75.66	0.21	1.10
6.15	76.04	74.79	75.41	0.21	1.10
6.20	75.88	74.62	75.25	0.21	1.10
6.25	75.85	74.38	75.11	0.21	1.10
6.30	75.99	74.49	75.24	0.21	1.10
6.35	76.22	74.67	75.45	0.21	1.10
6.40	75.82	74.46	75.14	0.21	1.10
6.45	76.06	74.91	75.49	0.21	1.10
6.49	75.13	73.90	74.52	0.21	1.10
6.54	75.97	74.58	75.27	0.21	1.10
6.59	76.17	74.82	75.49	0.21	1.10
6.64	75.83	74.41	75.12	0.21	1.10
6.69	75.91	74.78	75.34	0.21	1.10
6.74	75.66	74.33	75.00	0.21	1.10
6.79	76.18	74.63	75.40	0.21	1.10
6.84	75.80	74.45	75.12	0.21	1.10
6.89	75.69	74.18	74.94	0.21	1.10
6.94	75.91	74.64	75.28	0.21	1.10
6.99	78.19	76.23	77.21	0.22	1.11
7.04	75.94	74.33	75.13	0.21	1.10
7.09	75.67	74.34	75.01	0.21	1.10
7.13	75.56	74.16	74.86	0.21	1.10
7.18	75.85	74.40	75.12	0.21	1.10
7.23	75.78	74.31	75.04	0.21	1.10
7.28	75.27	74.01	74.64	0.21	1.10
7.33	75.94	74.38	75.16	0.21	1.10
7.38	75.94	74.35	75.15	0.21	1.10
7.43	76.13	74.79	75.46	0.21	1.10
7.48	76.01	74.60	75.31	0.21	1.10
7.53	75.13	73.88	74.51	0.21	1.10
7.58	75.68	74.42	75.05	0.21	1.10
7.63	76.01	74.52	75.26	0.21	1.10
7.68	76.04	74.79	75.41	0.21	1.10
7.73	75.77	74.68	75.23	0.21	1.10
7.77	75.99	74.78	75.38	0.21	1.10
7.82	75.97	74.61	75.29	0.21	1.10
7.87	75.84	74.55	75.19	0.21	1.10
7.92	77.11	76.24	76.67	0.22	1.11
7.97	76.41	75.10	75.76	0.22	1.10
8.02	75.34	74.31	74.83	0.21	1.10
8.07	75.75	74.24	74.99	0.21	1.10
8.12	76.02	74.74	75.38	0.21	1.10
8.17	75.91	74.81	75.36	0.21	1.10
8.22	75.99	75.00	75.50	0.21	1.10
8.27	75.53	74.41	74.97	0.21	1.10
8.32	77.88	75.87	76.87	0.22	1.11
8.36	75.47	74.44	74.95	0.21	1.10
8.41	75.63	74.52	75.08	0.21	1.10
8.46	76.11	74.77	75.44	0.21	1.10
8.51	77.33	75.39	76.36	0.22	1.10
8.56	74.97	73.60	74.28	0.20	1.10
8.61	75.96	74.37	75.16	0.21	1.10
8.66	76.28	74.86	75.57	0.21	1.10
8.71	76.08	74.67	75.37	0.21	1.10
8.76	75.06	73.78	74.42	0.20	1.10
8.81	75.60	74.17	74.88	0.21	1.10

8.86	75.91	74.46	75.19	0.21	1.10
8.91	76.46	75.03	75.74	0.21	1.10
8.96	75.93	74.40	75.17	0.21	1.10
9.00	75.71	74.26	74.99	0.21	1.10
9.05	76.21	74.80	75.50	0.21	1.10
9.10	76.34	74.89	75.62	0.21	1.10
9.15	75.95	74.57	75.26	0.21	1.10
9.20	77.89	75.99	76.94	0.22	1.11
9.25	75.76	74.57	75.16	0.21	1.10
9.30	75.69	74.20	74.95	0.21	1.10
9.35	75.63	74.08	74.86	0.21	1.10
9.40	75.43	74.04	74.73	0.21	1.10
9.45	75.62	74.13	74.88	0.21	1.10
9.50	75.90	74.44	75.17	0.21	1.10
9.55	75.67	74.34	75.01	0.21	1.10
9.59	76.26	74.79	75.53	0.21	1.10
9.64	76.05	74.65	75.35	0.21	1.10
9.69	75.32	73.99	74.66	0.21	1.10
9.74	75.58	74.40	74.99	0.21	1.10
9.79	75.82	74.44	75.13	0.21	1.10
9.84	76.33	75.00	75.67	0.21	1.10
9.89	75.85	74.43	75.14	0.21	1.10
9.94	76.14	74.43	75.29	0.21	1.10
9.99	77.54	75.62	76.58	0.22	1.11