

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 13:51:57 BST 2023

Experiment info

Name	csg524 Sample 3 Measurement 2
Type	Contact angle
Date	15-May-2023 16:32

Solid

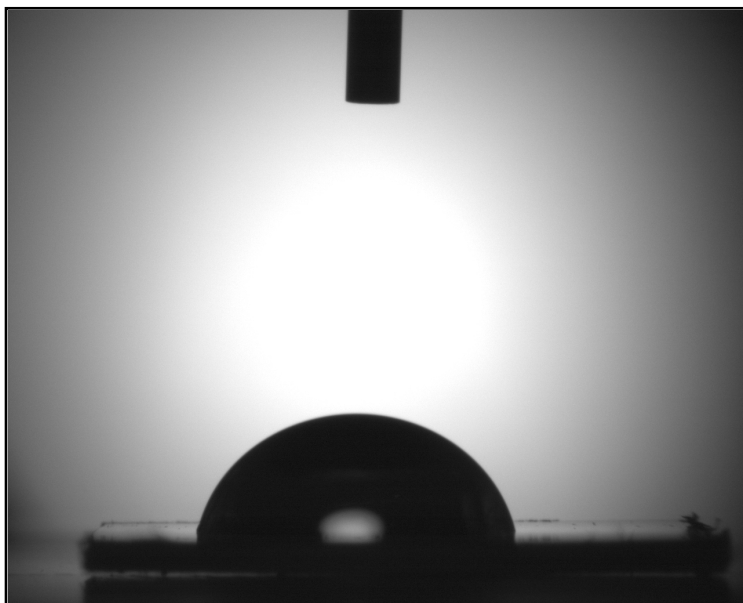
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

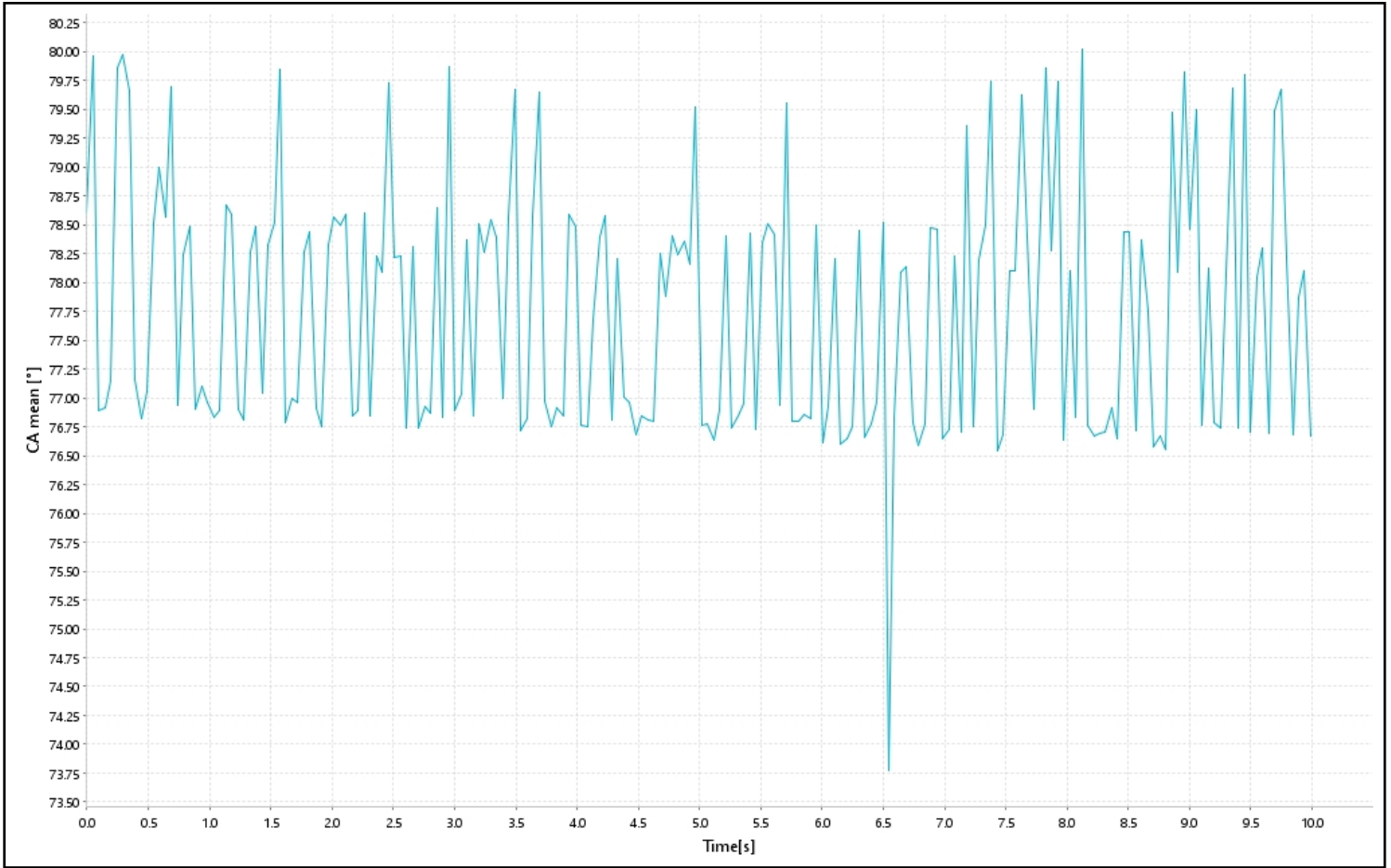
Heavy phase

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	78.97	78.24	78.61	0.33	1.21
0.05	79.90	80.03	79.96	0.34	1.22
0.10	76.74	77.05	76.89	0.31	1.21
0.15	76.77	77.07	76.92	0.31	1.21
0.20	76.96	77.33	77.14	0.31	1.21
0.25	79.43	80.29	79.86	0.35	1.22
0.30	79.93	80.01	79.97	0.35	1.22
0.34	79.55	79.77	79.66	0.34	1.22
0.39	77.06	77.25	77.16	0.31	1.21
0.44	76.65	76.99	76.82	0.31	1.20
0.49	76.76	77.36	77.06	0.32	1.21
0.54	77.86	79.16	78.51	0.33	1.21
0.59	78.96	79.03	79.00	0.34	1.22
0.64	78.85	78.28	78.56	0.33	1.21
0.69	79.57	79.82	79.69	0.34	1.22
0.74	76.77	77.11	76.94	0.31	1.21
0.79	77.69	78.78	78.24	0.32	1.21
0.84	78.57	78.41	78.49	0.33	1.21
0.89	76.70	77.12	76.91	0.31	1.20
0.93	76.95	77.26	77.10	0.31	1.21
0.98	76.94	76.98	76.96	0.31	1.21
1.03	76.79	76.87	76.83	0.31	1.21
1.08	76.81	76.98	76.89	0.31	1.21
1.13	78.17	79.17	78.67	0.33	1.21
1.18	78.09	79.09	78.59	0.33	1.21
1.23	76.71	77.09	76.90	0.31	1.21
1.28	76.64	76.98	76.81	0.31	1.21
1.33	78.43	78.08	78.26	0.33	1.21
1.38	78.73	78.24	78.48	0.33	1.21
1.43	76.98	77.10	77.04	0.31	1.21
1.48	78.41	78.23	78.32	0.33	1.21
1.53	78.92	78.11	78.52	0.32	1.21
1.57	80.01	79.69	79.85	0.33	1.22
1.62	76.98	76.59	76.78	0.30	1.20
1.67	77.05	76.94	76.99	0.31	1.21
1.72	76.83	77.10	76.97	0.31	1.21

1.77	77.94	78.59	78.27	0.32	1.21
1.82	78.70	78.18	78.44	0.32	1.21
1.87	76.81	77.01	76.91	0.31	1.21
1.92	76.43	77.07	76.75	0.31	1.21
1.97	77.61	79.02	78.32	0.33	1.21
2.02	78.49	78.65	78.57	0.34	1.21
2.07	78.59	78.40	78.49	0.33	1.21
2.12	78.78	78.39	78.58	0.33	1.21
2.16	76.66	77.04	76.85	0.31	1.21
2.21	76.75	77.03	76.89	0.31	1.21
2.26	78.78	78.43	78.60	0.33	1.21
2.31	76.64	77.05	76.85	0.31	1.21
2.36	77.62	78.84	78.23	0.33	1.21
2.41	77.98	78.19	78.09	0.33	1.21
2.46	79.36	80.11	79.73	0.35	1.22
2.51	77.58	78.86	78.22	0.33	1.21
2.56	78.28	78.18	78.23	0.33	1.21
2.61	76.74	76.73	76.74	0.31	1.21
2.66	78.03	78.60	78.31	0.32	1.21
2.71	76.67	76.81	76.74	0.31	1.21
2.76	76.74	77.10	76.92	0.31	1.21
2.80	76.58	77.15	76.87	0.31	1.21
2.85	77.99	79.31	78.65	0.33	1.21
2.90	76.58	77.09	76.83	0.31	1.21
2.95	79.66	80.08	79.87	0.34	1.22
3.00	76.86	76.92	76.89	0.31	1.21
3.05	76.91	77.14	77.03	0.31	1.21
3.10	77.85	78.89	78.37	0.33	1.21
3.15	76.54	77.15	76.85	0.31	1.21
3.20	78.56	78.45	78.51	0.33	1.21
3.25	77.72	78.80	78.26	0.32	1.21
3.30	78.71	78.36	78.54	0.33	1.21
3.35	78.54	78.24	78.39	0.33	1.21
3.40	76.95	77.05	77.00	0.31	1.21
3.44	78.78	78.33	78.55	0.33	1.21
3.49	79.52	79.83	79.67	0.34	1.22
3.54	76.67	76.77	76.72	0.31	1.20
3.59	76.75	76.88	76.82	0.31	1.21
3.64	78.75	78.37	78.56	0.33	1.21
3.69	79.36	79.92	79.64	0.35	1.22
3.74	76.78	77.15	76.97	0.31	1.21
3.79	76.59	76.92	76.76	0.31	1.20
3.84	76.92	76.92	76.92	0.31	1.21
3.89	76.76	76.94	76.85	0.31	1.21
3.94	78.07	79.10	78.59	0.32	1.21
3.99	78.62	78.34	78.48	0.33	1.21
4.03	76.61	76.91	76.76	0.31	1.20
4.08	76.56	76.94	76.75	0.31	1.20
4.13	77.39	77.95	77.67	0.32	1.21
4.18	77.93	78.86	78.39	0.32	1.21
4.23	78.80	78.35	78.58	0.33	1.21
4.28	76.69	76.93	76.81	0.31	1.21
4.33	78.33	78.08	78.20	0.33	1.21
4.38	76.77	77.25	77.01	0.31	1.21
4.43	76.85	77.07	76.96	0.31	1.21
4.48	76.54	76.83	76.68	0.31	1.21
4.53	76.77	76.92	76.84	0.31	1.21
4.58	76.71	76.92	76.81	0.31	1.21
4.63	76.64	76.95	76.79	0.31	1.21
4.67	78.38	78.12	78.25	0.33	1.21
4.72	77.95	77.82	77.89	0.33	1.21
4.77	77.85	78.95	78.40	0.33	1.21
4.82	77.70	78.78	78.24	0.33	1.21
4.87	78.51	78.19	78.35	0.33	1.21
4.92	78.31	78.01	78.16	0.33	1.21
4.97	79.27	79.78	79.52	0.34	1.22
5.02	76.63	76.90	76.76	0.31	1.21
5.07	76.57	76.97	76.77	0.31	1.21
5.12	76.43	76.85	76.64	0.31	1.20
5.17	76.75	77.03	76.89	0.31	1.21
5.22	77.89	78.93	78.41	0.33	1.21
5.26	76.47	77.02	76.75	0.31	1.21

5.31	76.71	76.97	76.84	0.31	1.21
5.36	76.72	77.17	76.95	0.31	1.21
5.41	78.61	78.25	78.43	0.33	1.21
5.46	76.61	76.85	76.73	0.31	1.20
5.51	77.90	78.78	78.34	0.33	1.21
5.56	78.68	78.34	78.51	0.33	1.21
5.61	77.89	78.95	78.42	0.32	1.21
5.66	76.85	77.04	76.94	0.31	1.21
5.71	79.42	79.68	79.55	0.34	1.22
5.76	76.73	76.87	76.80	0.31	1.21
5.81	76.65	76.95	76.80	0.31	1.21
5.86	76.72	77.00	76.86	0.31	1.21
5.90	76.68	76.96	76.82	0.31	1.21
5.95	78.07	78.92	78.50	0.33	1.21
6.00	76.42	76.81	76.61	0.31	1.20
6.05	76.75	77.09	76.92	0.31	1.21
6.10	77.71	78.71	78.21	0.32	1.21
6.15	76.57	76.64	76.60	0.31	1.20
6.20	76.56	76.73	76.64	0.31	1.21
6.25	76.67	76.82	76.75	0.31	1.21
6.30	78.71	78.21	78.46	0.33	1.21
6.35	76.54	76.78	76.66	0.31	1.20
6.40	76.71	76.85	76.78	0.31	1.21
6.45	76.81	77.10	76.96	0.31	1.21
6.49	78.70	78.35	78.53	0.33	1.21
6.54	74.16	73.38	73.77	0.28	1.19
6.59	76.64	77.01	76.82	0.31	1.21
6.64	78.17	78.01	78.09	0.33	1.21
6.69	78.19	78.10	78.14	0.33	1.21
6.74	76.68	76.89	76.78	0.31	1.21
6.79	76.49	76.69	76.59	0.31	1.21
6.84	76.71	76.82	76.77	0.31	1.21
6.89	78.69	78.25	78.47	0.33	1.21
6.94	77.97	78.95	78.46	0.33	1.21
6.99	76.52	76.78	76.65	0.31	1.21
7.04	76.60	76.86	76.73	0.31	1.21
7.09	77.81	78.64	78.22	0.33	1.21
7.13	76.57	76.84	76.70	0.31	1.21
7.18	79.41	79.30	79.36	0.34	1.22
7.23	76.66	76.85	76.76	0.31	1.21
7.28	77.69	78.71	78.20	0.32	1.21
7.33	78.64	78.34	78.49	0.33	1.21
7.38	79.44	80.05	79.74	0.34	1.22
7.43	76.45	76.63	76.54	0.31	1.20
7.48	76.48	76.90	76.69	0.31	1.21
7.53	77.67	78.54	78.10	0.32	1.21
7.58	77.70	78.50	78.10	0.32	1.21
7.63	79.45	79.80	79.63	0.34	1.22
7.68	77.93	78.88	78.41	0.32	1.21
7.73	76.82	76.99	76.90	0.31	1.21
7.77	78.40	78.14	78.27	0.33	1.21
7.82	79.60	80.11	79.85	0.35	1.22
7.87	77.79	78.76	78.27	0.33	1.21
7.92	79.37	80.12	79.74	0.35	1.22
7.97	76.43	76.84	76.64	0.31	1.21
8.02	77.65	78.55	78.10	0.32	1.21
8.07	76.59	77.07	76.83	0.31	1.21
8.12	79.92	80.11	80.02	0.34	1.22
8.17	76.73	76.80	76.76	0.31	1.21
8.22	76.68	76.67	76.67	0.30	1.21
8.27	76.50	76.88	76.69	0.31	1.21
8.32	76.54	76.88	76.71	0.31	1.21
8.36	76.67	77.16	76.92	0.31	1.21
8.41	76.47	76.82	76.65	0.31	1.21
8.46	78.60	78.28	78.44	0.33	1.21
8.51	78.60	78.27	78.44	0.33	1.21
8.56	76.62	76.82	76.72	0.31	1.21
8.61	78.52	78.22	78.37	0.33	1.21
8.66	77.29	78.22	77.76	0.32	1.21
8.71	76.45	76.71	76.58	0.31	1.21
8.76	76.59	76.76	76.68	0.31	1.21
8.81	76.46	76.65	76.55	0.30	1.20

8.86	79.34	79.61	79.47	0.34	1.22
8.91	77.62	78.57	78.10	0.32	1.21
8.96	79.76	79.89	79.83	0.34	1.22
9.00	78.70	78.23	78.47	0.33	1.21
9.05	79.22	79.77	79.50	0.34	1.22
9.10	76.53	77.01	76.77	0.31	1.21
9.15	77.57	78.68	78.13	0.32	1.21
9.20	76.68	76.88	76.78	0.31	1.21
9.25	76.62	76.84	76.73	0.31	1.21
9.30	78.13	78.01	78.07	0.33	1.21
9.35	79.50	79.86	79.68	0.34	1.22
9.40	76.58	76.89	76.74	0.31	1.21
9.45	79.49	80.12	79.80	0.35	1.22
9.50	76.41	77.00	76.70	0.31	1.21
9.55	77.53	78.57	78.05	0.32	1.21
9.59	78.41	78.18	78.29	0.33	1.21
9.64	76.55	76.83	76.69	0.31	1.21
9.69	79.18	79.78	79.48	0.34	1.22
9.74	79.40	79.93	79.67	0.34	1.22
9.79	78.43	78.02	78.22	0.33	1.21
9.84	76.53	76.83	76.68	0.31	1.21
9.89	77.93	77.81	77.87	0.33	1.21
9.94	78.25	77.96	78.10	0.33	1.21
9.99	76.55	76.79	76.67	0.31	1.21