

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 13:51:42 BST 2023

Experiment info

Name	csg524 Sample 3 Measurement 1
Type	Contact angle
Date	15-May-2023 16:28

Solid

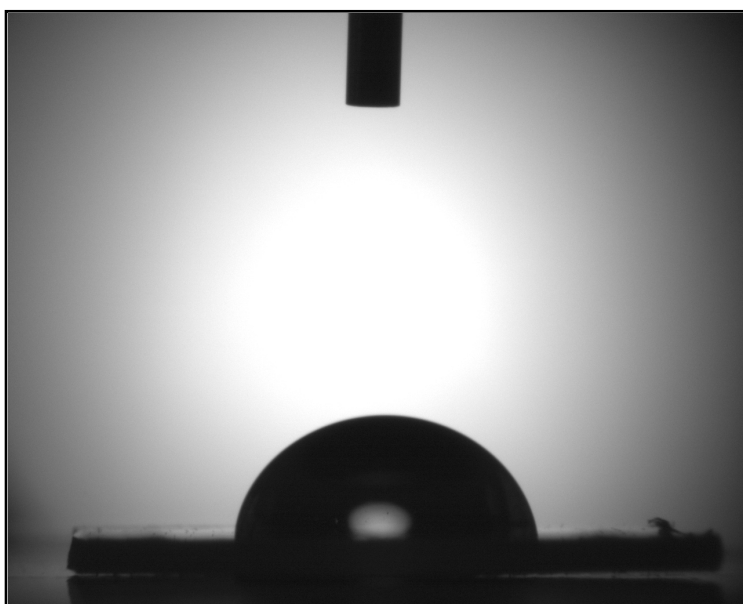
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

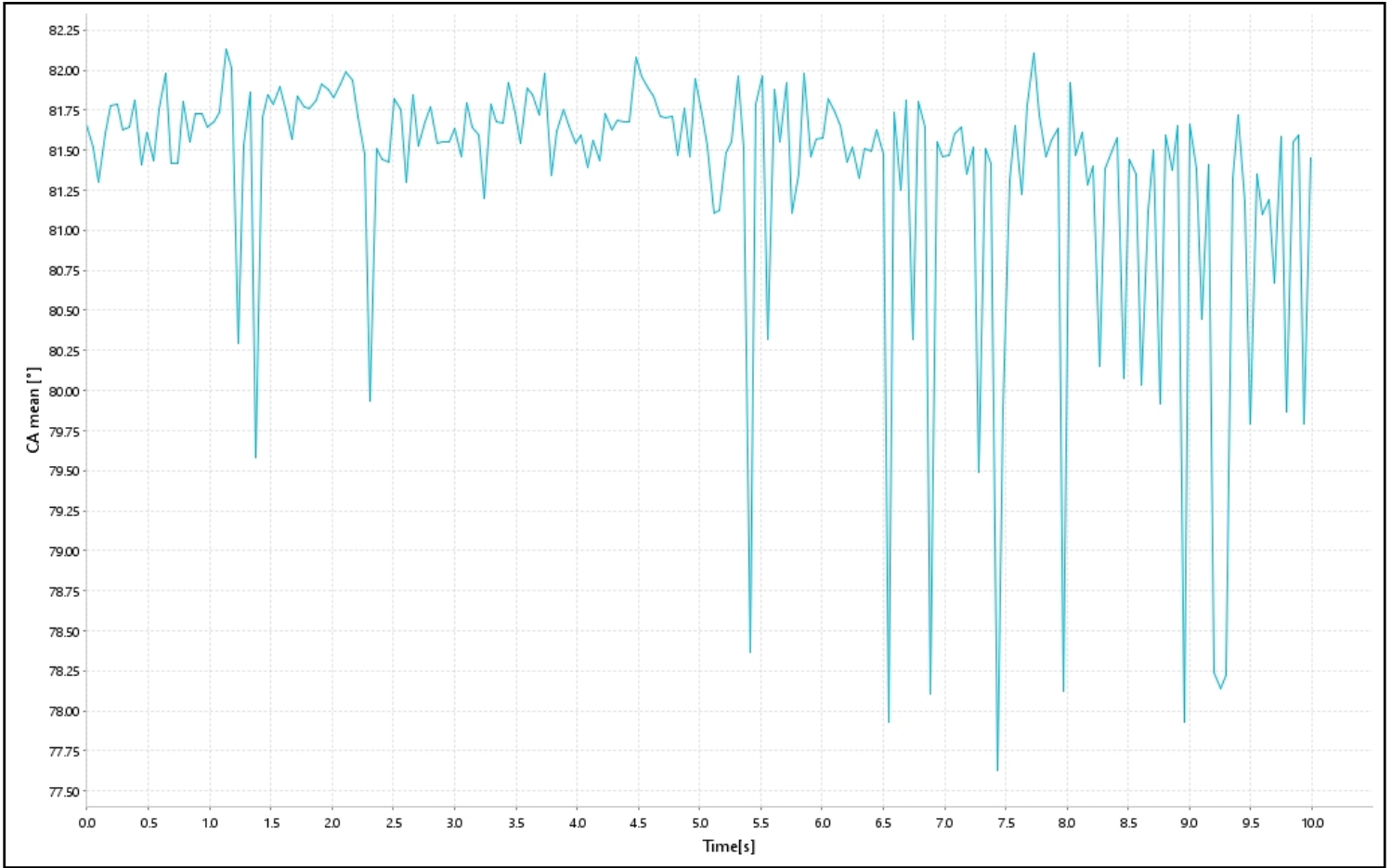
Heavy phase

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	82.53	80.79	81.66	0.28	1.15
0.05	82.48	80.57	81.52	0.28	1.15
0.10	82.27	80.33	81.30	0.28	1.15
0.15	82.53	80.67	81.60	0.28	1.15
0.20	82.65	80.91	81.78	0.28	1.15
0.25	82.69	80.88	81.78	0.28	1.15
0.30	82.62	80.63	81.63	0.28	1.15
0.34	82.57	80.71	81.64	0.28	1.15
0.39	82.81	80.82	81.81	0.28	1.15
0.44	82.45	80.37	81.41	0.28	1.15
0.49	82.62	80.60	81.61	0.28	1.15
0.54	82.41	80.46	81.44	0.28	1.15
0.59	82.75	80.75	81.75	0.28	1.15
0.64	82.92	81.03	81.98	0.28	1.15
0.69	82.56	80.28	81.42	0.28	1.15
0.74	82.46	80.38	81.42	0.28	1.15
0.79	82.69	80.91	81.80	0.28	1.15
0.84	82.39	80.72	81.55	0.28	1.15
0.89	82.65	80.80	81.72	0.28	1.15
0.93	82.63	80.83	81.73	0.28	1.15
0.98	82.70	80.58	81.64	0.28	1.15
1.03	82.66	80.69	81.68	0.28	1.15
1.08	82.70	80.77	81.74	0.28	1.15
1.13	82.95	81.30	82.13	0.28	1.15
1.18	82.89	81.13	82.01	0.28	1.15
1.23	80.78	79.81	80.30	0.27	1.15
1.28	82.63	80.42	81.53	0.28	1.15
1.33	82.90	80.83	81.86	0.28	1.15
1.38	80.12	79.05	79.58	0.27	1.15
1.43	82.64	80.76	81.70	0.28	1.15
1.48	82.87	80.83	81.85	0.28	1.15
1.53	82.66	80.91	81.79	0.28	1.15
1.57	82.72	81.07	81.89	0.28	1.15
1.62	82.67	80.84	81.76	0.28	1.15
1.67	82.42	80.72	81.57	0.28	1.15
1.72	82.76	80.92	81.84	0.28	1.15

1.77	82.77	80.76	81.77	0.28	1.15
1.82	82.70	80.82	81.76	0.28	1.15
1.87	82.74	80.89	81.81	0.28	1.15
1.92	82.91	80.91	81.91	0.28	1.15
1.97	83.11	80.64	81.88	0.28	1.15
2.02	82.95	80.71	81.83	0.28	1.15
2.07	82.96	80.86	81.91	0.28	1.15
2.12	82.89	81.09	81.99	0.28	1.15
2.16	82.85	81.03	81.94	0.28	1.15
2.21	82.70	80.72	81.71	0.28	1.15
2.26	82.52	80.43	81.47	0.28	1.15
2.31	80.41	79.46	79.94	0.27	1.15
2.36	82.52	80.51	81.51	0.28	1.15
2.41	82.60	80.29	81.44	0.28	1.15
2.46	82.60	80.26	81.43	0.27	1.15
2.51	82.79	80.85	81.82	0.28	1.15
2.56	82.75	80.76	81.75	0.28	1.15
2.61	82.36	80.24	81.30	0.28	1.15
2.66	82.86	80.84	81.85	0.28	1.15
2.71	82.50	80.55	81.53	0.28	1.15
2.76	82.61	80.75	81.68	0.28	1.15
2.80	82.76	80.79	81.77	0.28	1.15
2.85	82.48	80.61	81.55	0.28	1.15
2.90	82.52	80.58	81.55	0.28	1.15
2.95	82.47	80.64	81.55	0.28	1.15
3.00	82.62	80.66	81.64	0.28	1.15
3.05	82.54	80.38	81.46	0.28	1.15
3.10	82.73	80.87	81.80	0.28	1.15
3.15	82.62	80.67	81.65	0.28	1.15
3.20	82.53	80.65	81.59	0.28	1.15
3.25	82.14	80.26	81.20	0.28	1.15
3.30	82.68	80.90	81.79	0.28	1.15
3.35	82.64	80.71	81.68	0.28	1.15
3.39	82.56	80.77	81.67	0.28	1.15
3.44	82.80	81.04	81.92	0.28	1.15
3.49	82.54	80.94	81.74	0.28	1.15
3.54	82.49	80.59	81.54	0.28	1.15
3.59	82.78	80.99	81.89	0.28	1.15
3.64	82.76	80.93	81.85	0.28	1.15
3.69	82.71	80.73	81.72	0.28	1.15
3.74	82.97	80.98	81.98	0.28	1.15
3.79	82.35	80.33	81.34	0.28	1.15
3.84	82.55	80.69	81.62	0.28	1.15
3.89	82.67	80.83	81.75	0.28	1.15
3.94	82.68	80.62	81.65	0.28	1.15
3.99	82.54	80.55	81.54	0.28	1.15
4.03	82.51	80.67	81.59	0.28	1.15
4.08	82.24	80.54	81.39	0.28	1.15
4.13	82.52	80.59	81.56	0.28	1.15
4.18	82.30	80.57	81.43	0.28	1.15
4.23	82.61	80.84	81.73	0.28	1.15
4.28	82.52	80.74	81.63	0.28	1.15
4.33	82.64	80.73	81.69	0.28	1.15
4.38	82.68	80.67	81.68	0.28	1.15
4.43	82.66	80.69	81.67	0.28	1.15
4.48	83.03	81.13	82.08	0.28	1.15
4.53	83.03	80.90	81.96	0.28	1.15
4.58	82.87	80.90	81.89	0.28	1.15
4.62	82.83	80.84	81.84	0.28	1.15
4.67	82.64	80.77	81.71	0.28	1.15
4.72	82.54	80.86	81.70	0.28	1.15
4.77	82.60	80.83	81.71	0.28	1.15
4.82	82.30	80.63	81.46	0.28	1.15
4.87	82.70	80.82	81.76	0.28	1.15
4.92	82.49	80.43	81.46	0.28	1.15
4.97	82.90	81.00	81.95	0.28	1.15
5.02	82.68	80.77	81.73	0.28	1.15
5.07	82.34	80.72	81.53	0.28	1.15
5.12	82.07	80.14	81.11	0.28	1.15
5.17	82.09	80.16	81.13	0.28	1.15
5.22	82.40	80.57	81.49	0.28	1.15
5.26	82.51	80.59	81.55	0.28	1.15

5.31	82.88	81.05	81.96	0.28	1.15
5.36	82.59	80.44	81.52	0.28	1.15
5.41	78.53	78.20	78.36	0.26	1.14
5.46	82.70	80.87	81.78	0.28	1.15
5.51	82.87	81.06	81.96	0.28	1.15
5.56	80.96	79.67	80.32	0.27	1.15
5.61	82.83	80.93	81.88	0.28	1.15
5.66	82.51	80.60	81.55	0.28	1.15
5.71	82.91	80.93	81.92	0.28	1.15
5.76	82.21	80.01	81.11	0.27	1.15
5.81	82.46	80.24	81.35	0.28	1.15
5.86	82.85	81.11	81.98	0.28	1.15
5.90	82.36	80.55	81.46	0.28	1.15
5.95	82.48	80.66	81.57	0.28	1.15
6.00	82.64	80.51	81.58	0.28	1.15
6.05	82.74	80.90	81.82	0.28	1.15
6.10	82.67	80.80	81.74	0.28	1.15
6.15	82.60	80.70	81.65	0.28	1.15
6.20	82.35	80.49	81.42	0.28	1.15
6.25	82.60	80.43	81.52	0.28	1.15
6.30	82.22	80.43	81.33	0.28	1.15
6.35	82.38	80.65	81.51	0.28	1.15
6.40	82.37	80.61	81.49	0.28	1.15
6.45	82.55	80.70	81.62	0.28	1.15
6.49	82.37	80.58	81.47	0.28	1.15
6.54	77.95	77.91	77.93	0.26	1.14
6.59	82.60	80.88	81.74	0.28	1.15
6.64	82.20	80.30	81.25	0.28	1.15
6.69	82.54	81.08	81.81	0.28	1.15
6.74	80.88	79.77	80.32	0.27	1.15
6.79	82.56	81.04	81.80	0.28	1.15
6.84	82.46	80.83	81.64	0.28	1.15
6.89	77.98	78.23	78.11	0.26	1.14
6.94	82.47	80.62	81.55	0.28	1.15
6.99	82.41	80.51	81.46	0.28	1.15
7.04	82.46	80.47	81.47	0.28	1.15
7.09	82.47	80.73	81.60	0.28	1.15
7.13	82.54	80.74	81.64	0.28	1.15
7.18	82.34	80.36	81.35	0.28	1.15
7.23	82.37	80.66	81.52	0.28	1.15
7.28	79.86	79.13	79.49	0.27	1.15
7.33	82.34	80.67	81.51	0.28	1.15
7.38	82.28	80.56	81.42	0.28	1.15
7.43	77.47	77.78	77.62	0.25	1.14
7.48	80.36	79.38	79.87	0.27	1.15
7.53	82.31	80.31	81.31	0.28	1.15
7.58	82.64	80.66	81.65	0.28	1.15
7.63	82.22	80.23	81.22	0.28	1.15
7.68	82.71	80.85	81.78	0.28	1.15
7.72	83.07	81.13	82.10	0.28	1.15
7.77	82.66	80.78	81.72	0.28	1.15
7.82	82.46	80.45	81.46	0.28	1.15
7.87	82.51	80.60	81.56	0.28	1.15
7.92	82.59	80.68	81.64	0.28	1.15
7.97	78.19	78.07	78.13	0.25	1.14
8.02	82.92	80.93	81.92	0.28	1.15
8.07	82.36	80.58	81.47	0.28	1.15
8.12	82.50	80.71	81.61	0.28	1.15
8.17	82.31	80.25	81.28	0.28	1.15
8.22	82.45	80.36	81.41	0.28	1.15
8.27	80.62	79.69	80.15	0.27	1.15
8.32	82.44	80.33	81.39	0.28	1.15
8.36	82.50	80.49	81.50	0.28	1.15
8.41	82.49	80.67	81.58	0.28	1.15
8.46	80.66	79.49	80.07	0.27	1.15
8.51	82.50	80.39	81.44	0.28	1.15
8.56	82.41	80.29	81.35	0.28	1.15
8.61	80.53	79.54	80.03	0.27	1.15
8.66	82.18	80.06	81.12	0.27	1.15
8.71	82.50	80.50	81.50	0.28	1.15
8.76	80.49	79.34	79.91	0.27	1.15
8.81	82.56	80.62	81.59	0.28	1.15

8.86	82.38	80.38	81.38	0.28	1.15
8.91	82.41	80.90	81.65	0.28	1.15
8.95	77.87	77.99	77.93	0.26	1.14
9.00	82.56	80.75	81.66	0.28	1.15
9.05	82.40	80.36	81.38	0.28	1.15
9.10	81.04	79.86	80.45	0.27	1.15
9.15	82.27	80.54	81.41	0.28	1.15
9.20	78.27	78.21	78.24	0.26	1.14
9.25	78.11	78.17	78.14	0.26	1.14
9.30	77.97	78.47	78.22	0.26	1.14
9.35	82.28	80.36	81.32	0.28	1.15
9.40	82.56	80.89	81.72	0.28	1.15
9.45	82.13	80.21	81.17	0.28	1.15
9.50	80.34	79.24	79.79	0.27	1.15
9.55	82.13	80.57	81.35	0.28	1.15
9.59	82.01	80.19	81.10	0.28	1.15
9.64	82.17	80.21	81.19	0.28	1.15
9.69	81.05	80.29	80.67	0.28	1.15
9.74	82.38	80.79	81.58	0.28	1.15
9.79	80.38	79.35	79.86	0.27	1.15
9.84	82.34	80.76	81.55	0.28	1.15
9.89	82.38	80.80	81.59	0.28	1.15
9.94	80.22	79.36	79.79	0.27	1.15
9.99	82.32	80.58	81.45	0.28	1.15