

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:36:18 BST 2023

Experiment info

Name	csg524 Sample 5 Measurement 5
Type	Contact angle
Date	16-May-2023 14:33

Solid

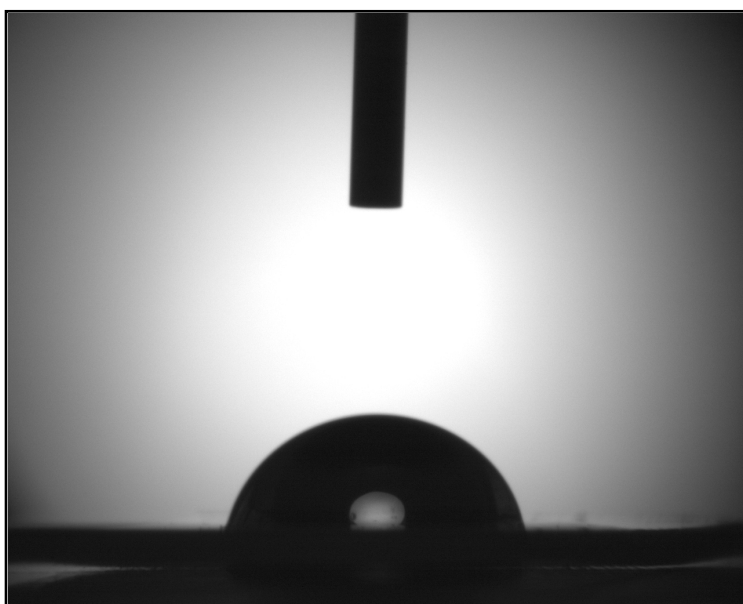
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

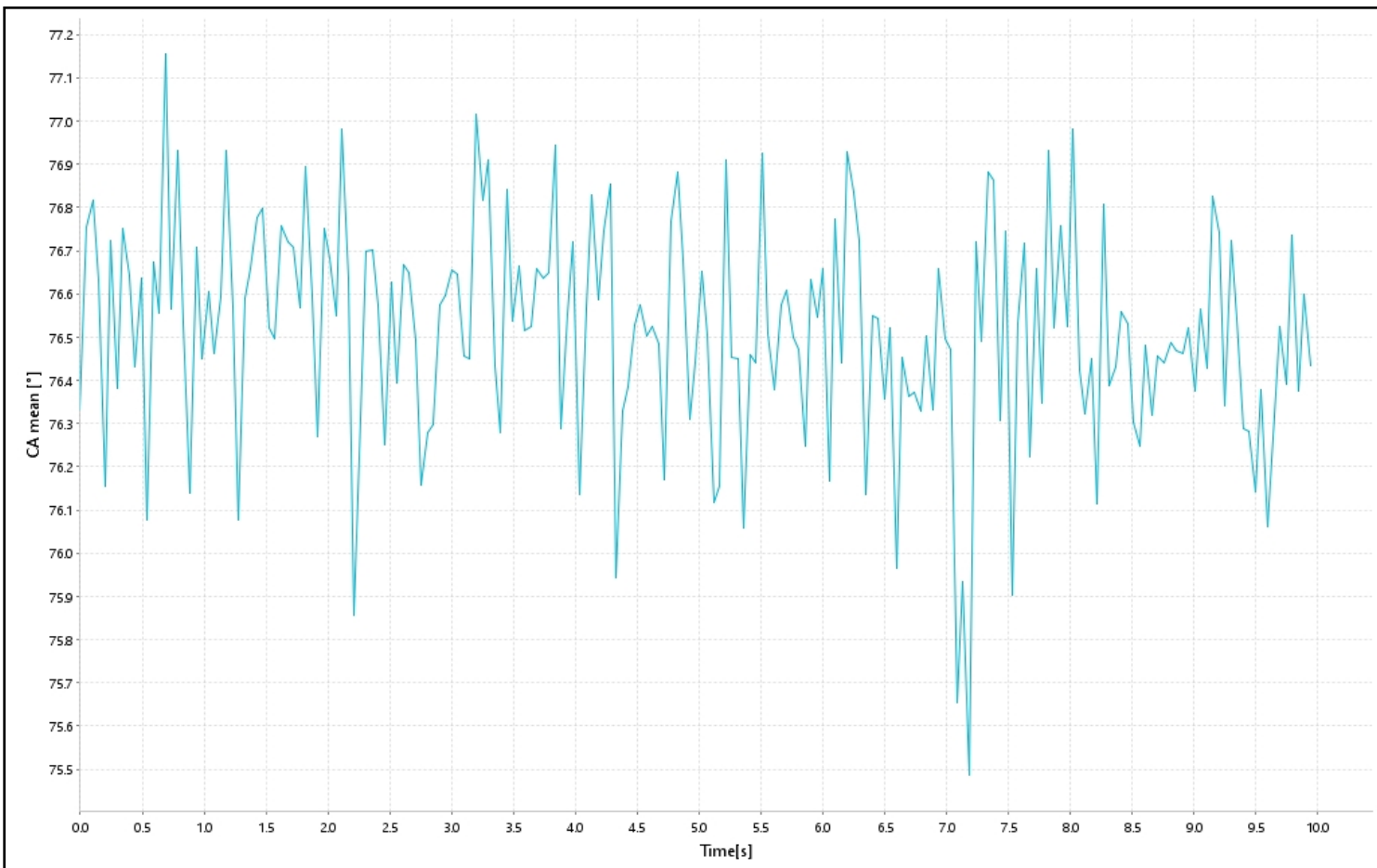
Heavy phase

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	75.81	76.85	76.33	0.25	1.10
0.05	76.18	77.33	76.76	0.26	1.10
0.10	76.12	77.51	76.82	0.26	1.10
0.15	75.93	77.34	76.63	0.26	1.10
0.20	75.39	76.92	76.16	0.26	1.10
0.25	75.95	77.50	76.72	0.26	1.10
0.30	75.65	77.11	76.38	0.26	1.10
0.34	75.91	77.60	76.75	0.26	1.10
0.39	75.95	77.33	76.64	0.26	1.10
0.44	75.71	77.15	76.43	0.26	1.10
0.49	75.95	77.32	76.64	0.26	1.10
0.54	75.35	76.81	76.08	0.25	1.09
0.59	75.89	77.45	76.67	0.26	1.10
0.64	75.76	77.35	76.56	0.26	1.10
0.69	76.30	78.01	77.15	0.26	1.10
0.74	75.77	77.36	76.57	0.26	1.10
0.79	76.09	77.77	76.93	0.26	1.10
0.84	75.71	77.37	76.54	0.26	1.10
0.89	75.38	76.90	76.14	0.26	1.10
0.93	75.93	77.49	76.71	0.26	1.10
0.98	75.65	77.25	76.45	0.26	1.10
1.03	75.85	77.36	76.61	0.26	1.10
1.08	75.76	77.17	76.46	0.25	1.10
1.13	75.86	77.33	76.59	0.26	1.10
1.18	76.07	77.79	76.93	0.26	1.10
1.23	75.80	77.34	76.57	0.26	1.10
1.28	75.41	76.74	76.08	0.25	1.10
1.33	75.79	77.39	76.59	0.26	1.10
1.38	75.88	77.43	76.66	0.26	1.10
1.43	76.02	77.53	76.78	0.26	1.10
1.48	75.95	77.65	76.80	0.26	1.10
1.53	75.76	77.28	76.52	0.26	1.10
1.57	75.71	77.29	76.50	0.26	1.10
1.62	76.07	77.44	76.76	0.26	1.10
1.67	75.83	77.61	76.72	0.26	1.10
1.72	75.93	77.48	76.71	0.26	1.10

1.77	75.71	77.42	76.57	0.26	1.10
1.82	76.07	77.71	76.89	0.26	1.10
1.87	75.81	77.38	76.60	0.26	1.10
1.92	75.47	77.07	76.27	0.26	1.10
1.97	75.90	77.61	76.75	0.26	1.10
2.02	75.76	77.61	76.68	0.26	1.10
2.07	75.77	77.33	76.55	0.26	1.10
2.12	76.09	77.88	76.98	0.26	1.10
2.16	75.63	77.64	76.64	0.26	1.10
2.21	74.35	77.37	75.86	0.28	1.10
2.26	75.30	77.32	76.31	0.26	1.10
2.31	75.65	77.75	76.70	0.27	1.10
2.36	75.78	77.63	76.70	0.26	1.10
2.41	75.74	77.41	76.58	0.26	1.10
2.46	75.41	77.09	76.25	0.26	1.10
2.51	75.60	77.65	76.63	0.26	1.10
2.56	75.26	77.53	76.39	0.27	1.10
2.61	75.64	77.70	76.67	0.27	1.10
2.66	75.77	77.53	76.65	0.26	1.10
2.71	75.60	77.39	76.49	0.26	1.10
2.76	75.42	76.89	76.16	0.25	1.10
2.80	75.59	76.97	76.28	0.25	1.10
2.85	75.66	76.94	76.30	0.25	1.10
2.90	75.85	77.30	76.57	0.26	1.10
2.95	75.90	77.29	76.59	0.26	1.10
3.00	75.91	77.40	76.65	0.26	1.10
3.05	75.83	77.47	76.65	0.26	1.10
3.10	75.66	77.25	76.46	0.26	1.10
3.15	75.64	77.26	76.45	0.26	1.10
3.20	76.16	77.87	77.02	0.26	1.10
3.25	76.01	77.63	76.82	0.26	1.10
3.30	76.24	77.58	76.91	0.26	1.10
3.35	75.67	77.19	76.43	0.26	1.10
3.40	75.55	77.01	76.28	0.26	1.10
3.44	76.13	77.56	76.84	0.26	1.10
3.49	75.86	77.21	76.54	0.26	1.10
3.54	75.95	77.38	76.66	0.26	1.10
3.59	75.80	77.23	76.52	0.26	1.10
3.64	75.74	77.31	76.53	0.26	1.10
3.69	75.94	77.38	76.66	0.26	1.10
3.74	75.97	77.30	76.63	0.26	1.10
3.79	75.88	77.41	76.65	0.26	1.10
3.84	76.15	77.73	76.94	0.26	1.10
3.89	75.61	76.97	76.29	0.26	1.10
3.94	75.72	77.38	76.55	0.26	1.10
3.99	75.90	77.54	76.72	0.26	1.10
4.03	75.26	77.00	76.13	0.26	1.10
4.08	75.76	77.37	76.57	0.26	1.10
4.13	75.96	77.70	76.83	0.26	1.10
4.18	75.79	77.38	76.59	0.26	1.10
4.23	75.82	77.67	76.75	0.26	1.10
4.28	76.02	77.69	76.85	0.26	1.10
4.33	75.23	76.66	75.94	0.26	1.10
4.38	75.49	77.17	76.33	0.26	1.10
4.43	75.41	77.36	76.38	0.26	1.10
4.48	75.59	77.46	76.53	0.26	1.10
4.53	75.71	77.44	76.57	0.26	1.10
4.58	75.57	77.44	76.50	0.26	1.10
4.63	75.63	77.41	76.52	0.26	1.10
4.67	75.67	77.30	76.48	0.26	1.10
4.72	75.34	77.00	76.17	0.25	1.10
4.77	76.04	77.49	76.77	0.26	1.10
4.82	76.09	77.68	76.88	0.26	1.10
4.87	75.89	77.47	76.68	0.26	1.10
4.92	75.58	77.04	76.31	0.26	1.10
4.97	75.58	77.30	76.44	0.26	1.10
5.02	75.91	77.39	76.65	0.26	1.10
5.07	75.62	77.39	76.50	0.26	1.10
5.12	75.30	76.93	76.12	0.25	1.10
5.17	75.41	76.90	76.16	0.26	1.10
5.22	76.05	77.77	76.91	0.26	1.10
5.26	75.67	77.24	76.45	0.26	1.10

5.31	75.77	77.13	76.45	0.26	1.10
5.36	75.38	76.73	76.06	0.26	1.10
5.41	75.63	77.28	76.46	0.26	1.10
5.46	75.67	77.21	76.44	0.26	1.10
5.51	76.13	77.72	76.93	0.26	1.10
5.56	75.77	77.24	76.51	0.26	1.10
5.61	75.61	77.15	76.38	0.26	1.10
5.66	75.80	77.35	76.57	0.26	1.10
5.71	75.93	77.29	76.61	0.26	1.10
5.76	75.80	77.20	76.50	0.26	1.10
5.81	75.79	77.16	76.47	0.26	1.10
5.86	75.53	76.96	76.25	0.26	1.10
5.90	75.99	77.27	76.63	0.26	1.10
5.95	75.92	77.17	76.55	0.25	1.10
6.00	76.13	77.19	76.66	0.25	1.10
6.05	75.51	76.83	76.17	0.25	1.10
6.10	76.05	77.50	76.77	0.26	1.10
6.15	75.58	77.29	76.44	0.26	1.10
6.20	75.99	77.87	76.93	0.26	1.10
6.25	75.83	77.84	76.84	0.26	1.10
6.30	75.88	77.57	76.72	0.26	1.10
6.35	75.29	76.99	76.14	0.26	1.10
6.40	75.62	77.48	76.55	0.26	1.10
6.45	75.61	77.48	76.54	0.26	1.10
6.49	75.49	77.23	76.36	0.26	1.10
6.54	75.73	77.31	76.52	0.26	1.10
6.59	75.28	76.65	75.97	0.25	1.10
6.64	75.80	77.10	76.45	0.26	1.10
6.69	75.64	77.08	76.36	0.26	1.10
6.74	75.71	77.03	76.37	0.26	1.10
6.79	75.70	76.96	76.33	0.26	1.10
6.84	75.78	77.22	76.50	0.26	1.10
6.89	75.58	77.08	76.33	0.25	1.10
6.94	75.88	77.44	76.66	0.26	1.10
6.99	75.72	77.27	76.50	0.26	1.10
7.04	75.68	77.26	76.47	0.26	1.10
7.09	74.96	76.34	75.65	0.26	1.10
7.13	75.08	76.79	75.93	0.26	1.10
7.18	74.39	76.58	75.48	0.28	1.10
7.23	75.92	77.52	76.72	0.26	1.10
7.28	75.68	77.30	76.49	0.26	1.10
7.33	76.03	77.74	76.88	0.26	1.10
7.38	76.06	77.67	76.86	0.26	1.10
7.43	75.62	76.99	76.31	0.26	1.10
7.48	75.91	77.58	76.74	0.26	1.10
7.53	75.12	76.69	75.90	0.25	1.09
7.58	75.72	77.34	76.53	0.26	1.10
7.63	75.93	77.50	76.72	0.26	1.10
7.68	75.54	76.90	76.22	0.26	1.10
7.73	75.79	77.52	76.66	0.26	1.10
7.77	75.61	77.08	76.35	0.26	1.10
7.82	76.17	77.69	76.93	0.26	1.10
7.87	75.72	77.32	76.52	0.26	1.10
7.92	75.96	77.55	76.76	0.26	1.10
7.97	75.83	77.21	76.52	0.26	1.10
8.02	76.19	77.77	76.98	0.26	1.10
8.07	75.61	77.24	76.42	0.26	1.10
8.12	75.57	77.07	76.32	0.26	1.10
8.17	75.67	77.23	76.45	0.26	1.10
8.22	75.37	76.86	76.11	0.26	1.10
8.27	75.86	77.76	76.81	0.26	1.10
8.32	75.50	77.27	76.39	0.26	1.10
8.36	75.66	77.20	76.43	0.26	1.10
8.41	75.73	77.39	76.56	0.26	1.10
8.46	75.77	77.29	76.53	0.26	1.10
8.51	75.56	77.05	76.31	0.26	1.10
8.56	75.51	76.98	76.25	0.26	1.10
8.61	75.62	77.33	76.48	0.26	1.10
8.66	75.58	77.05	76.32	0.26	1.10
8.71	75.70	77.21	76.45	0.26	1.10
8.76	75.74	77.14	76.44	0.26	1.10
8.81	75.78	77.19	76.49	0.26	1.10

8.86	75.73	77.21	76.47	0.26	1.10
8.91	75.65	77.27	76.46	0.26	1.10
8.96	75.77	77.27	76.52	0.26	1.10
9.00	75.60	77.15	76.37	0.26	1.10
9.05	75.82	77.31	76.57	0.26	1.10
9.10	75.65	77.20	76.43	0.26	1.10
9.15	76.01	77.64	76.83	0.26	1.10
9.20	75.86	77.62	76.74	0.26	1.10
9.25	75.63	77.05	76.34	0.26	1.10
9.30	75.91	77.54	76.72	0.26	1.10
9.35	75.78	77.31	76.54	0.26	1.10
9.40	75.58	77.00	76.29	0.26	1.10
9.45	75.48	77.08	76.28	0.26	1.10
9.50	76.41	75.87	76.14	0.23	1.10
9.55	75.63	77.13	76.38	0.26	1.10
9.59	75.30	76.83	76.06	0.25	1.09
9.64	75.47	77.16	76.32	0.26	1.10
9.69	75.64	77.41	76.52	0.26	1.10
9.74	75.69	77.09	76.39	0.26	1.10
9.79	75.92	77.55	76.74	0.26	1.10
9.84	75.67	77.09	76.38	0.25	1.10
9.89	75.79	77.41	76.60	0.26	1.10
9.94	75.70	77.17	76.43	0.26	1.10