

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:18:43 BST 2023

Experiment info

Name	csg524 Sample 3.5 Measurement 5
Type	Contact angle
Date	16-May-2023 14:06

Solid

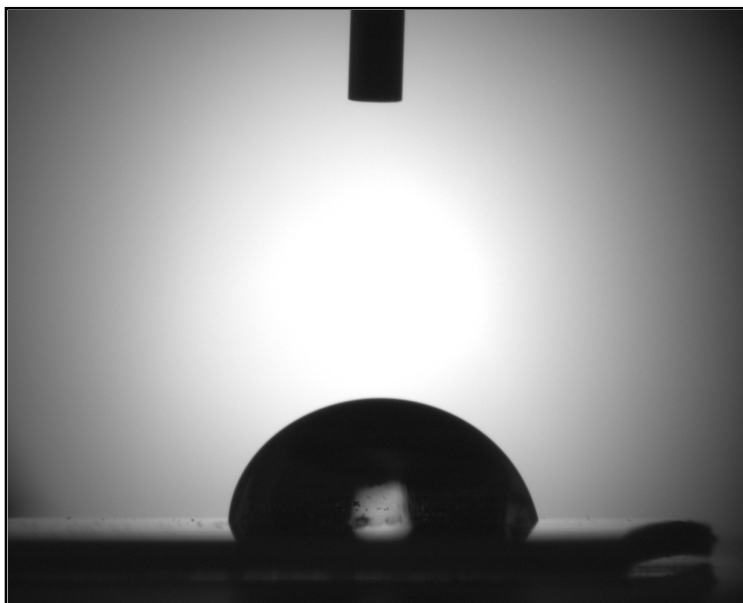
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

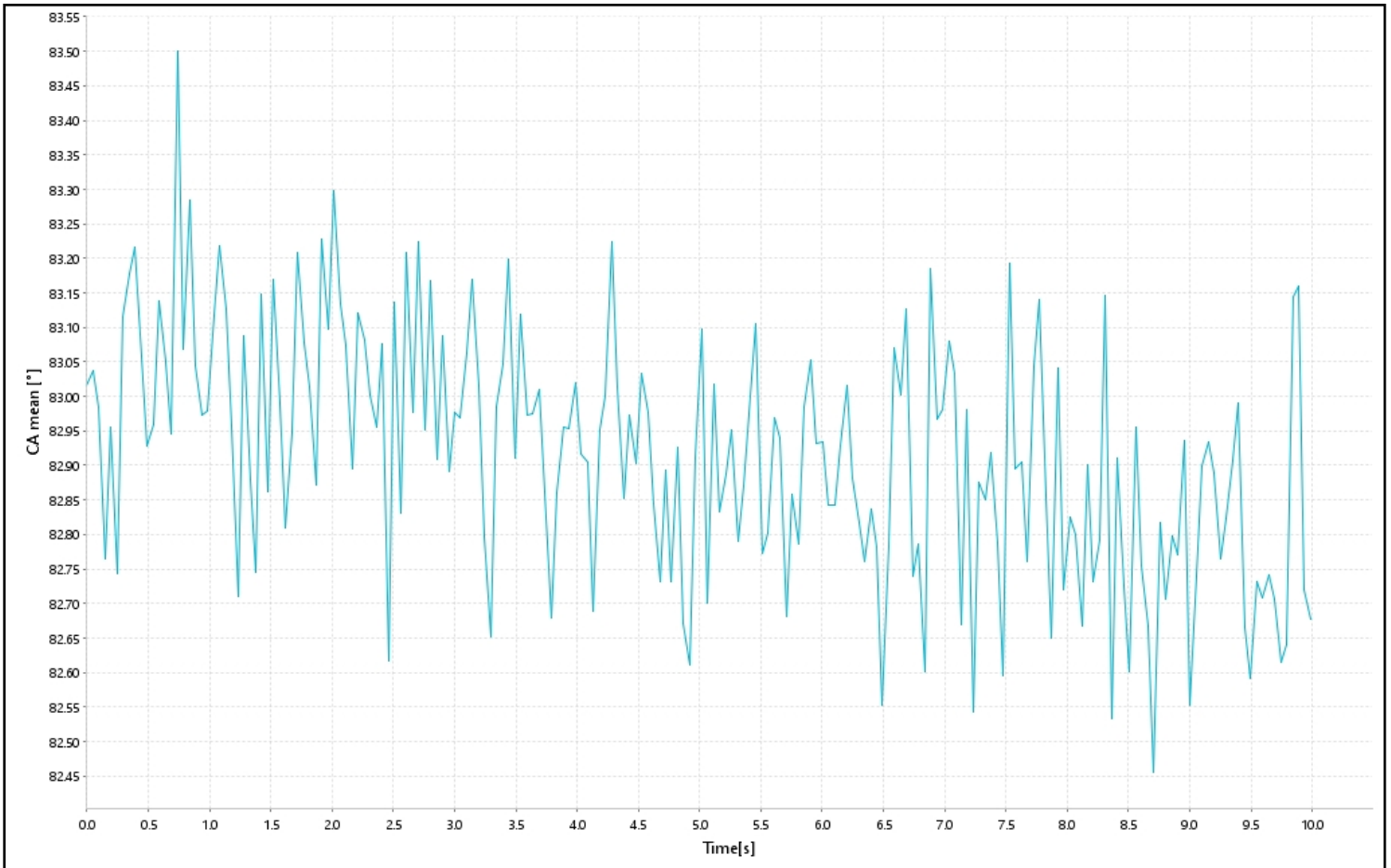
Heavy phase

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	85.34	80.69	83.02	0.25	1.15
0.05	85.42	80.66	83.04	0.25	1.15
0.10	85.33	80.64	82.98	0.25	1.15
0.15	85.12	80.41	82.76	0.25	1.15
0.20	85.31	80.60	82.96	0.25	1.15
0.25	85.06	80.43	82.74	0.25	1.15
0.29	85.51	80.72	83.11	0.25	1.15
0.34	85.65	80.71	83.18	0.25	1.15
0.39	85.62	80.81	83.22	0.25	1.15
0.44	85.40	80.72	83.06	0.25	1.15
0.49	85.30	80.56	82.93	0.25	1.15
0.54	85.41	80.51	82.96	0.25	1.15
0.59	85.62	80.66	83.14	0.25	1.15
0.64	85.27	80.83	83.05	0.25	1.15
0.69	85.16	80.73	82.95	0.25	1.15
0.74	85.93	81.07	83.50	0.26	1.15
0.79	85.42	80.72	83.07	0.25	1.15
0.84	85.75	80.82	83.28	0.25	1.15
0.88	85.47	80.61	83.04	0.25	1.15
0.93	85.50	80.45	82.97	0.25	1.15
0.98	85.36	80.59	82.98	0.25	1.15
1.03	85.37	80.86	83.12	0.25	1.15
1.08	85.53	80.90	83.22	0.25	1.15
1.13	85.45	80.80	83.13	0.25	1.15
1.18	85.24	80.67	82.96	0.25	1.15
1.23	84.97	80.45	82.71	0.25	1.15
1.28	85.51	80.66	83.09	0.25	1.15
1.33	85.34	80.42	82.88	0.25	1.15
1.38	85.16	80.33	82.75	0.25	1.15
1.43	85.56	80.74	83.15	0.25	1.15
1.48	85.21	80.51	82.86	0.25	1.15
1.52	85.56	80.78	83.17	0.25	1.15
1.57	85.33	80.65	82.99	0.25	1.15
1.62	85.27	80.35	82.81	0.25	1.15
1.67	85.42	80.48	82.95	0.25	1.15
1.72	85.66	80.75	83.21	0.25	1.15

1.77	85.46	80.69	83.08	0.25	1.15
1.82	85.46	80.57	83.01	0.25	1.15
1.87	85.32	80.42	82.87	0.25	1.15
1.92	85.65	80.80	83.23	0.25	1.15
1.97	85.35	80.84	83.10	0.25	1.15
2.02	85.76	80.83	83.30	0.25	1.15
2.07	85.61	80.66	83.13	0.25	1.15
2.11	85.49	80.66	83.07	0.25	1.15
2.16	85.09	80.70	82.90	0.25	1.15
2.21	85.36	80.88	83.12	0.25	1.15
2.26	85.50	80.66	83.08	0.25	1.15
2.31	85.54	80.46	83.00	0.25	1.15
2.36	85.22	80.69	82.95	0.25	1.15
2.41	85.34	80.81	83.08	0.26	1.15
2.46	84.91	80.32	82.62	0.25	1.15
2.51	85.65	80.63	83.14	0.25	1.15
2.56	85.16	80.50	82.83	0.25	1.15
2.61	85.60	80.81	83.21	0.25	1.15
2.66	85.41	80.54	82.98	0.25	1.15
2.71	85.74	80.70	83.22	0.25	1.15
2.75	85.35	80.55	82.95	0.25	1.15
2.80	85.54	80.79	83.17	0.25	1.15
2.85	85.17	80.65	82.91	0.25	1.15
2.90	85.46	80.72	83.09	0.25	1.15
2.95	85.24	80.54	82.89	0.25	1.15
3.00	85.41	80.55	82.98	0.25	1.15
3.05	85.35	80.59	82.97	0.25	1.15
3.10	85.47	80.66	83.06	0.25	1.15
3.15	85.67	80.67	83.17	0.25	1.15
3.20	85.49	80.54	83.02	0.25	1.15
3.25	85.22	80.38	82.80	0.25	1.15
3.30	84.91	80.39	82.65	0.25	1.15
3.35	85.33	80.64	82.98	0.25	1.15
3.39	85.48	80.62	83.05	0.25	1.15
3.44	85.59	80.81	83.20	0.25	1.15
3.49	85.30	80.52	82.91	0.25	1.15
3.54	85.61	80.63	83.12	0.25	1.15
3.59	85.31	80.64	82.97	0.25	1.15
3.64	85.31	80.64	82.97	0.25	1.15
3.69	85.50	80.52	83.01	0.25	1.15
3.74	85.11	80.61	82.86	0.25	1.15
3.79	84.90	80.46	82.68	0.25	1.15
3.84	85.19	80.53	82.86	0.25	1.15
3.89	85.40	80.52	82.96	0.25	1.15
3.94	85.39	80.52	82.95	0.25	1.15
3.98	85.39	80.65	83.02	0.25	1.15
4.03	85.18	80.65	82.92	0.25	1.15
4.08	85.18	80.63	82.90	0.25	1.15
4.13	84.90	80.48	82.69	0.25	1.15
4.18	85.18	80.72	82.95	0.25	1.15
4.23	85.27	80.73	83.00	0.25	1.15
4.28	85.71	80.74	83.22	0.25	1.15
4.33	85.38	80.65	83.01	0.25	1.15
4.38	85.18	80.53	82.85	0.25	1.15
4.43	85.45	80.49	82.97	0.25	1.15
4.48	85.32	80.48	82.90	0.25	1.15
4.53	85.47	80.60	83.03	0.25	1.15
4.58	85.50	80.46	82.98	0.25	1.15
4.62	85.33	80.35	82.84	0.25	1.15
4.67	85.07	80.40	82.73	0.25	1.15
4.72	85.20	80.59	82.89	0.25	1.15
4.77	85.02	80.44	82.73	0.25	1.15
4.82	85.26	80.59	82.93	0.25	1.15
4.87	85.02	80.32	82.67	0.25	1.15
4.92	84.89	80.34	82.61	0.25	1.15
4.97	85.26	80.56	82.91	0.25	1.15
5.02	85.50	80.69	83.10	0.25	1.15
5.07	84.97	80.43	82.70	0.25	1.15
5.12	85.25	80.78	83.02	0.25	1.15
5.17	85.10	80.56	82.83	0.25	1.15
5.21	85.15	80.63	82.89	0.25	1.15
5.26	85.33	80.57	82.95	0.25	1.15

5.31	85.12	80.46	82.79	0.25	1.15
5.36	85.14	80.60	82.87	0.25	1.15
5.41	85.36	80.64	83.00	0.25	1.15
5.46	85.50	80.71	83.11	0.25	1.15
5.51	85.09	80.46	82.77	0.25	1.15
5.56	85.16	80.45	82.80	0.25	1.15
5.61	85.28	80.66	82.97	0.25	1.15
5.66	85.27	80.61	82.94	0.25	1.15
5.71	85.00	80.36	82.68	0.25	1.15
5.76	85.27	80.45	82.86	0.25	1.15
5.81	85.14	80.43	82.79	0.25	1.15
5.85	85.33	80.64	82.98	0.25	1.15
5.90	85.41	80.69	83.05	0.25	1.15
5.95	85.25	80.62	82.93	0.25	1.15
6.00	85.26	80.61	82.93	0.25	1.15
6.05	85.30	80.38	82.84	0.25	1.15
6.10	85.19	80.50	82.84	0.25	1.15
6.15	85.15	80.70	82.93	0.25	1.15
6.20	85.20	80.83	83.02	0.25	1.15
6.25	85.02	80.75	82.88	0.25	1.15
6.30	84.99	80.65	82.82	0.25	1.15
6.35	85.08	80.44	82.76	0.25	1.15
6.40	85.27	80.40	82.84	0.25	1.15
6.44	85.29	80.27	82.78	0.25	1.15
6.49	84.87	80.24	82.55	0.25	1.15
6.54	85.18	80.38	82.78	0.25	1.15
6.59	85.47	80.67	83.07	0.25	1.15
6.64	85.59	80.41	83.00	0.25	1.15
6.69	85.64	80.61	83.13	0.25	1.15
6.74	85.17	80.31	82.74	0.25	1.15
6.79	85.19	80.38	82.79	0.25	1.15
6.84	84.90	80.31	82.60	0.25	1.15
6.89	85.60	80.77	83.19	0.25	1.15
6.94	85.29	80.64	82.97	0.25	1.15
6.99	85.33	80.63	82.98	0.25	1.15
7.04	85.48	80.68	83.08	0.25	1.15
7.08	85.40	80.67	83.03	0.25	1.15
7.13	85.05	80.29	82.67	0.25	1.15
7.18	85.39	80.57	82.98	0.25	1.15
7.23	84.94	80.15	82.54	0.25	1.15
7.28	85.25	80.51	82.88	0.25	1.15
7.33	85.21	80.49	82.85	0.25	1.15
7.38	85.30	80.53	82.92	0.25	1.15
7.43	85.03	80.54	82.79	0.25	1.15
7.48	84.80	80.39	82.60	0.25	1.15
7.53	85.51	80.88	83.19	0.25	1.15
7.58	85.26	80.53	82.89	0.25	1.15
7.63	85.20	80.61	82.91	0.25	1.15
7.68	85.06	80.46	82.76	0.25	1.15
7.72	85.42	80.67	83.04	0.25	1.15
7.77	85.54	80.74	83.14	0.25	1.15
7.82	85.22	80.49	82.86	0.25	1.15
7.87	85.08	80.22	82.65	0.24	1.15
7.92	85.64	80.44	83.04	0.25	1.15
7.97	85.30	80.14	82.72	0.24	1.15
8.02	85.29	80.36	82.82	0.25	1.15
8.07	85.25	80.35	82.80	0.25	1.15
8.12	85.01	80.32	82.67	0.25	1.15
8.17	85.22	80.58	82.90	0.25	1.15
8.22	85.10	80.36	82.73	0.25	1.15
8.27	85.22	80.36	82.79	0.25	1.15
8.31	85.68	80.61	83.15	0.25	1.15
8.36	84.79	80.28	82.53	0.25	1.15
8.41	85.36	80.46	82.91	0.25	1.15
8.46	85.05	80.40	82.73	0.25	1.15
8.51	84.91	80.30	82.60	0.25	1.15
8.56	85.29	80.62	82.96	0.25	1.15
8.61	85.13	80.38	82.75	0.25	1.15
8.66	84.95	80.38	82.67	0.25	1.15
8.71	84.73	80.18	82.45	0.25	1.15
8.76	85.18	80.46	82.82	0.25	1.15
8.81	85.10	80.31	82.71	0.25	1.15

8.86	85.13	80.46	82.80	0.25	1.15
8.91	85.02	80.52	82.77	0.25	1.15
8.95	85.34	80.53	82.94	0.25	1.15
9.00	84.82	80.29	82.55	0.25	1.15
9.05	85.07	80.41	82.74	0.25	1.15
9.10	85.27	80.53	82.90	0.25	1.15
9.15	85.40	80.46	82.93	0.25	1.15
9.20	85.39	80.39	82.89	0.25	1.15
9.25	85.10	80.43	82.76	0.25	1.15
9.30	85.21	80.44	82.82	0.25	1.15
9.35	85.27	80.54	82.91	0.25	1.15
9.40	85.36	80.62	82.99	0.25	1.15
9.45	85.00	80.33	82.67	0.25	1.15
9.50	84.91	80.27	82.59	0.25	1.15
9.54	85.02	80.44	82.73	0.25	1.15
9.59	84.96	80.46	82.71	0.25	1.15
9.64	85.06	80.42	82.74	0.25	1.15
9.69	85.03	80.39	82.71	0.25	1.15
9.74	85.00	80.23	82.61	0.25	1.15
9.79	85.03	80.24	82.64	0.25	1.15
9.84	85.70	80.59	83.14	0.25	1.15
9.89	85.67	80.65	83.16	0.25	1.15
9.94	85.12	80.33	82.72	0.25	1.15
9.99	85.08	80.28	82.68	0.25	1.15