

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:23:37 BST 2023

Experiment info

Name	csg524 Sample 4 Measurement 3
Type	Contact angle
Date	16-May-2023 14:12

Solid

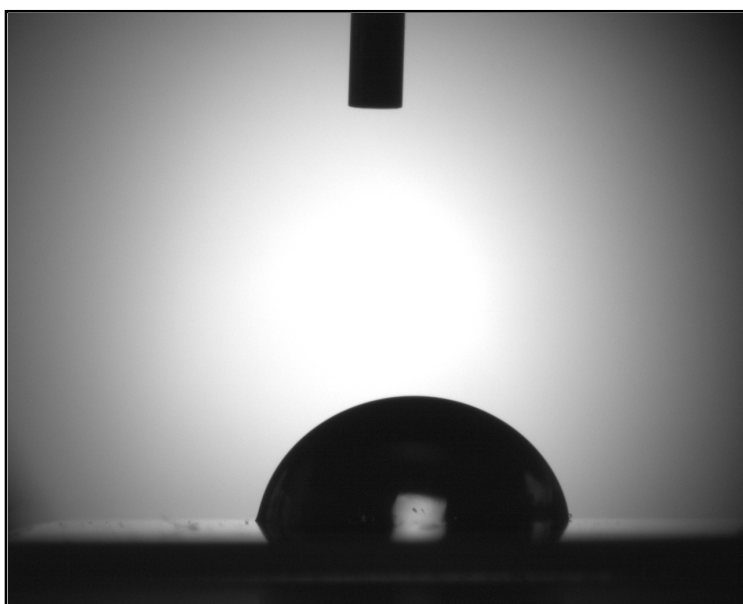
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

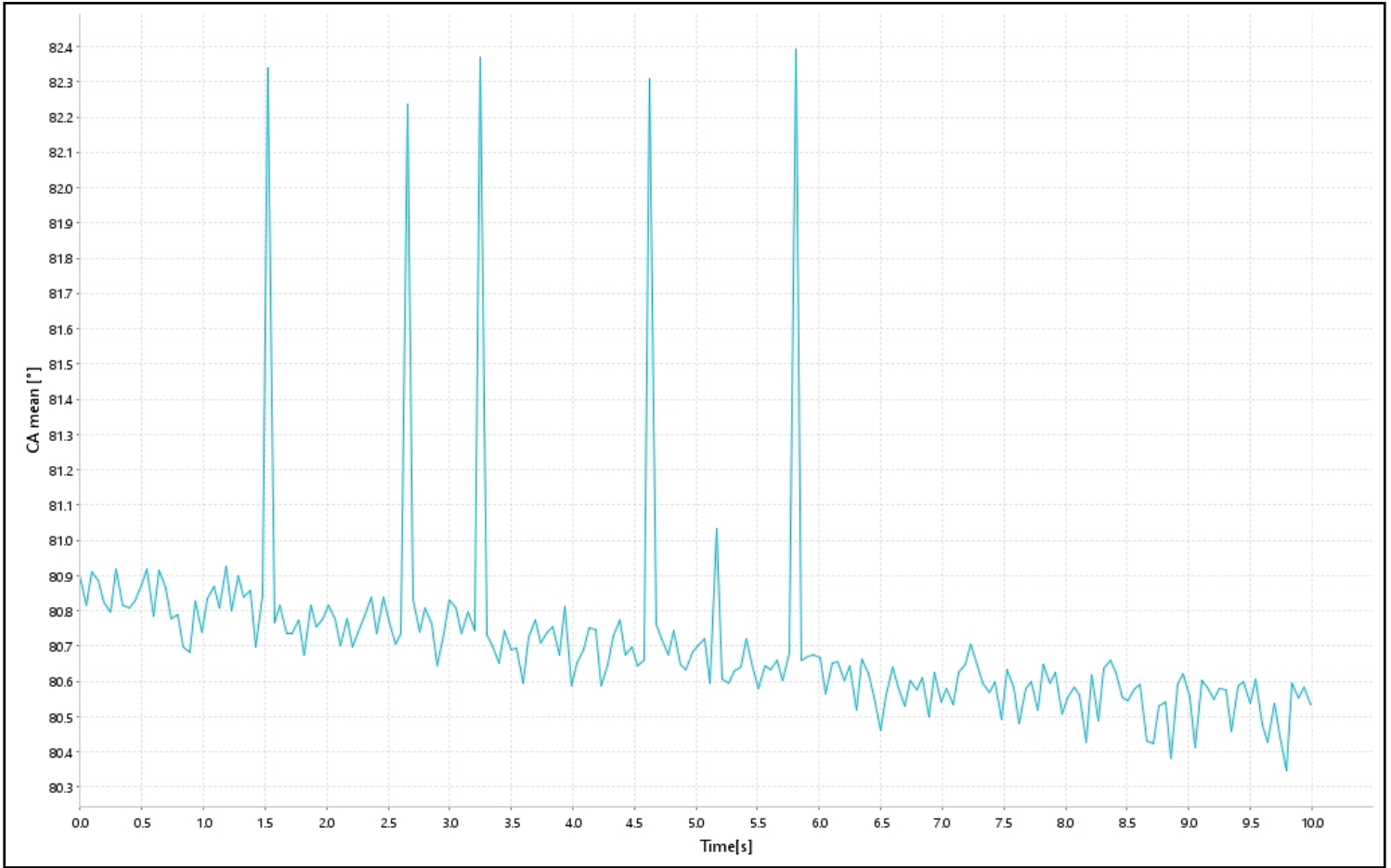
Heavy phase

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	81.04	80.76	80.90	0.30	1.16
0.05	80.94	80.69	80.81	0.30	1.16
0.10	81.05	80.77	80.91	0.30	1.16
0.15	80.98	80.79	80.89	0.30	1.16
0.20	80.79	80.86	80.83	0.31	1.16
0.25	80.78	80.81	80.80	0.31	1.16
0.29	80.92	80.92	80.92	0.31	1.16
0.34	80.90	80.73	80.82	0.30	1.16
0.39	80.90	80.72	80.81	0.30	1.16
0.44	80.80	80.85	80.83	0.30	1.16
0.49	80.91	80.84	80.87	0.30	1.16
0.54	80.94	80.90	80.92	0.30	1.16
0.59	80.88	80.69	80.79	0.30	1.16
0.64	81.10	80.73	80.92	0.30	1.16
0.69	81.08	80.66	80.87	0.30	1.16
0.74	80.97	80.59	80.78	0.30	1.16
0.79	80.91	80.67	80.79	0.30	1.16
0.84	80.81	80.58	80.70	0.30	1.16
0.89	80.80	80.56	80.68	0.30	1.16
0.93	80.96	80.69	80.83	0.30	1.16
0.98	80.85	80.63	80.74	0.30	1.16
1.03	80.90	80.77	80.83	0.30	1.16
1.08	80.90	80.84	80.87	0.30	1.16
1.13	81.00	80.62	80.81	0.30	1.16
1.18	81.10	80.75	80.93	0.30	1.16
1.23	80.88	80.72	80.80	0.30	1.16
1.28	81.06	80.75	80.90	0.30	1.16
1.33	80.88	80.80	80.84	0.30	1.16
1.38	80.94	80.78	80.86	0.30	1.16
1.43	80.81	80.59	80.70	0.30	1.16
1.48	81.10	80.59	80.84	0.30	1.16
1.53	82.19	82.48	82.34	0.31	1.16
1.57	81.02	80.51	80.77	0.30	1.16
1.62	81.02	80.61	80.81	0.30	1.16
1.67	80.82	80.66	80.74	0.30	1.16
1.72	80.73	80.74	80.74	0.31	1.16

1.77	80.77	80.78	80.77	0.30	1.16
1.82	80.80	80.54	80.67	0.30	1.16
1.87	80.92	80.71	80.81	0.30	1.16
1.92	80.77	80.74	80.76	0.30	1.16
1.97	80.64	80.91	80.78	0.31	1.16
2.02	80.82	80.81	80.81	0.31	1.16
2.07	80.99	80.56	80.78	0.30	1.16
2.12	80.80	80.60	80.70	0.30	1.16
2.16	80.80	80.75	80.78	0.30	1.16
2.21	80.63	80.77	80.70	0.31	1.16
2.26	80.79	80.70	80.75	0.30	1.16
2.31	80.92	80.65	80.79	0.30	1.16
2.36	81.00	80.68	80.84	0.30	1.16
2.41	80.81	80.66	80.74	0.30	1.16
2.46	80.91	80.77	80.84	0.30	1.16
2.51	80.82	80.72	80.77	0.30	1.16
2.56	80.77	80.64	80.70	0.30	1.16
2.61	80.98	80.49	80.73	0.30	1.16
2.66	82.03	82.45	82.24	0.31	1.16
2.71	81.04	80.63	80.83	0.30	1.16
2.76	80.86	80.62	80.74	0.30	1.16
2.80	80.92	80.70	80.81	0.30	1.16
2.85	80.91	80.62	80.76	0.30	1.16
2.90	80.84	80.45	80.64	0.30	1.16
2.95	80.93	80.54	80.74	0.30	1.16
3.00	80.85	80.81	80.83	0.30	1.16
3.05	80.74	80.88	80.81	0.31	1.16
3.10	80.72	80.76	80.74	0.31	1.16
3.15	80.82	80.78	80.80	0.30	1.16
3.20	80.94	80.54	80.74	0.30	1.16
3.25	82.12	82.62	82.37	0.31	1.16
3.30	80.85	80.61	80.73	0.30	1.16
3.35	80.85	80.56	80.70	0.30	1.16
3.39	80.75	80.56	80.65	0.30	1.16
3.44	80.97	80.51	80.74	0.30	1.16
3.49	80.78	80.61	80.69	0.30	1.16
3.54	80.78	80.61	80.69	0.30	1.16
3.59	80.79	80.40	80.60	0.30	1.16
3.64	80.98	80.47	80.72	0.30	1.16
3.69	80.92	80.63	80.77	0.30	1.16
3.74	80.87	80.54	80.71	0.30	1.16
3.79	80.86	80.62	80.74	0.30	1.16
3.84	80.93	80.57	80.75	0.30	1.16
3.89	80.82	80.53	80.68	0.30	1.16
3.94	80.85	80.77	80.81	0.30	1.16
3.99	80.60	80.57	80.59	0.30	1.16
4.03	80.74	80.56	80.65	0.30	1.16
4.08	80.86	80.52	80.69	0.30	1.16
4.13	80.97	80.54	80.75	0.30	1.16
4.18	80.98	80.51	80.75	0.30	1.16
4.23	80.71	80.47	80.59	0.30	1.16
4.28	80.64	80.65	80.65	0.30	1.16
4.33	80.82	80.63	80.73	0.30	1.16
4.38	80.82	80.72	80.77	0.30	1.16
4.43	80.66	80.69	80.67	0.30	1.16
4.48	80.68	80.72	80.70	0.31	1.16
4.53	80.65	80.63	80.64	0.30	1.16
4.58	80.90	80.42	80.66	0.30	1.16
4.62	82.34	82.28	82.31	0.31	1.16
4.67	81.14	80.39	80.76	0.30	1.16
4.72	80.80	80.64	80.72	0.30	1.16
4.77	80.67	80.68	80.68	0.31	1.16
4.82	80.66	80.83	80.74	0.31	1.16
4.87	80.55	80.75	80.65	0.31	1.16
4.92	80.74	80.52	80.63	0.30	1.16
4.97	80.93	80.43	80.68	0.30	1.16
5.02	80.90	80.50	80.70	0.30	1.16
5.07	80.99	80.45	80.72	0.30	1.16
5.12	80.79	80.40	80.60	0.30	1.16
5.17	81.05	81.01	81.03	0.31	1.16
5.22	80.67	80.54	80.61	0.30	1.16
5.26	80.72	80.47	80.59	0.30	1.16

5.31	80.76	80.50	80.63	0.30	1.16
5.36	80.84	80.44	80.64	0.30	1.16
5.41	80.88	80.57	80.72	0.30	1.16
5.46	80.71	80.56	80.64	0.30	1.16
5.51	80.64	80.52	80.58	0.30	1.16
5.56	80.65	80.64	80.64	0.31	1.16
5.61	80.57	80.69	80.63	0.31	1.16
5.66	80.70	80.62	80.66	0.30	1.16
5.71	80.79	80.42	80.60	0.30	1.16
5.76	80.88	80.47	80.68	0.30	1.16
5.81	82.06	82.72	82.39	0.32	1.16
5.86	80.62	80.70	80.66	0.31	1.16
5.90	80.65	80.69	80.67	0.31	1.16
5.95	80.85	80.50	80.67	0.30	1.16
6.00	80.91	80.43	80.67	0.30	1.16
6.05	80.73	80.40	80.56	0.30	1.16
6.10	80.76	80.54	80.65	0.30	1.16
6.15	80.70	80.61	80.66	0.30	1.16
6.20	80.74	80.47	80.60	0.30	1.16
6.25	80.92	80.37	80.64	0.30	1.16
6.30	80.82	80.22	80.52	0.30	1.16
6.35	80.82	80.50	80.66	0.30	1.16
6.40	80.59	80.66	80.62	0.30	1.16
6.45	80.56	80.56	80.56	0.31	1.16
6.49	80.53	80.40	80.46	0.30	1.16
6.54	80.77	80.35	80.56	0.30	1.16
6.59	80.84	80.44	80.64	0.30	1.16
6.64	80.75	80.42	80.58	0.30	1.16
6.69	80.64	80.42	80.53	0.30	1.16
6.74	80.76	80.45	80.60	0.30	1.16
6.79	80.71	80.44	80.57	0.30	1.16
6.84	80.77	80.45	80.61	0.30	1.16
6.89	80.55	80.45	80.50	0.30	1.16
6.94	80.65	80.60	80.63	0.30	1.16
6.99	80.61	80.47	80.54	0.30	1.16
7.04	80.70	80.46	80.58	0.30	1.16
7.09	80.65	80.42	80.53	0.30	1.16
7.13	80.82	80.43	80.62	0.30	1.16
7.18	80.81	80.49	80.65	0.30	1.16
7.23	80.81	80.60	80.71	0.30	1.16
7.28	80.68	80.60	80.64	0.30	1.16
7.33	80.59	80.59	80.59	0.30	1.16
7.38	80.65	80.49	80.57	0.30	1.16
7.43	80.73	80.47	80.60	0.30	1.16
7.48	80.82	80.16	80.49	0.29	1.16
7.53	80.82	80.44	80.63	0.30	1.16
7.58	80.73	80.44	80.58	0.30	1.16
7.63	80.54	80.43	80.48	0.30	1.16
7.68	80.55	80.61	80.58	0.30	1.16
7.72	80.59	80.61	80.60	0.30	1.16
7.77	80.65	80.38	80.52	0.30	1.16
7.82	80.89	80.41	80.65	0.30	1.16
7.87	80.71	80.48	80.59	0.30	1.16
7.92	80.67	80.59	80.63	0.30	1.16
7.97	80.51	80.51	80.51	0.30	1.16
8.02	80.51	80.59	80.55	0.30	1.16
8.07	80.53	80.64	80.58	0.31	1.16
8.12	80.56	80.55	80.56	0.30	1.16
8.17	80.84	80.01	80.43	0.29	1.16
8.22	80.85	80.39	80.62	0.30	1.16
8.27	80.82	80.16	80.49	0.30	1.16
8.32	80.84	80.43	80.64	0.30	1.16
8.36	80.73	80.59	80.66	0.30	1.16
8.41	80.79	80.46	80.63	0.30	1.16
8.46	80.69	80.42	80.55	0.30	1.16
8.51	80.70	80.39	80.55	0.30	1.16
8.56	80.78	80.38	80.58	0.30	1.16
8.61	80.79	80.39	80.59	0.30	1.16
8.66	80.62	80.24	80.43	0.30	1.16
8.71	80.51	80.34	80.42	0.30	1.16
8.76	80.43	80.62	80.53	0.31	1.16
8.81	80.45	80.63	80.54	0.31	1.16

8.86	80.41	80.35	80.38	0.30	1.16
8.91	80.62	80.57	80.59	0.30	1.16
8.95	80.80	80.44	80.62	0.30	1.16
9.00	80.69	80.43	80.56	0.30	1.16
9.05	80.59	80.24	80.41	0.30	1.16
9.10	80.77	80.44	80.60	0.30	1.16
9.15	80.65	80.51	80.58	0.30	1.16
9.20	80.59	80.51	80.55	0.30	1.16
9.25	80.73	80.43	80.58	0.30	1.16
9.30	80.72	80.43	80.57	0.30	1.16
9.35	80.67	80.24	80.46	0.30	1.16
9.40	80.78	80.39	80.59	0.30	1.16
9.45	80.74	80.46	80.60	0.30	1.16
9.50	80.58	80.49	80.54	0.30	1.16
9.55	80.50	80.72	80.61	0.31	1.16
9.59	80.45	80.51	80.48	0.31	1.16
9.64	80.42	80.43	80.43	0.30	1.16
9.69	80.65	80.42	80.54	0.30	1.16
9.74	80.64	80.25	80.45	0.30	1.16
9.79	80.49	80.20	80.35	0.30	1.16
9.84	80.66	80.54	80.60	0.30	1.16
9.89	80.63	80.47	80.55	0.30	1.16
9.94	80.61	80.56	80.58	0.30	1.16
9.99	80.55	80.52	80.53	0.30	1.16