

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 16:59:43 BST 2023

Experiment info

Name	csg524 Sample 1 Treated Measurement 1
Type	Contact angle
Date	16-May-2023 16:54

Solid

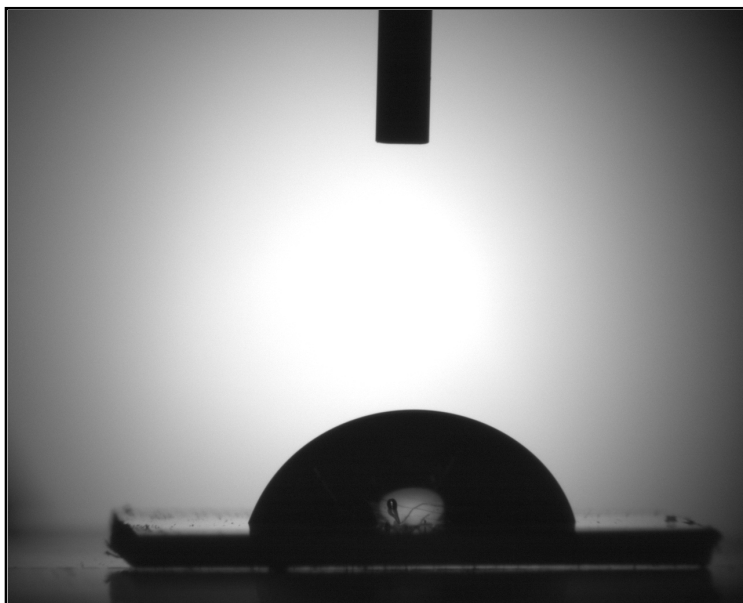
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

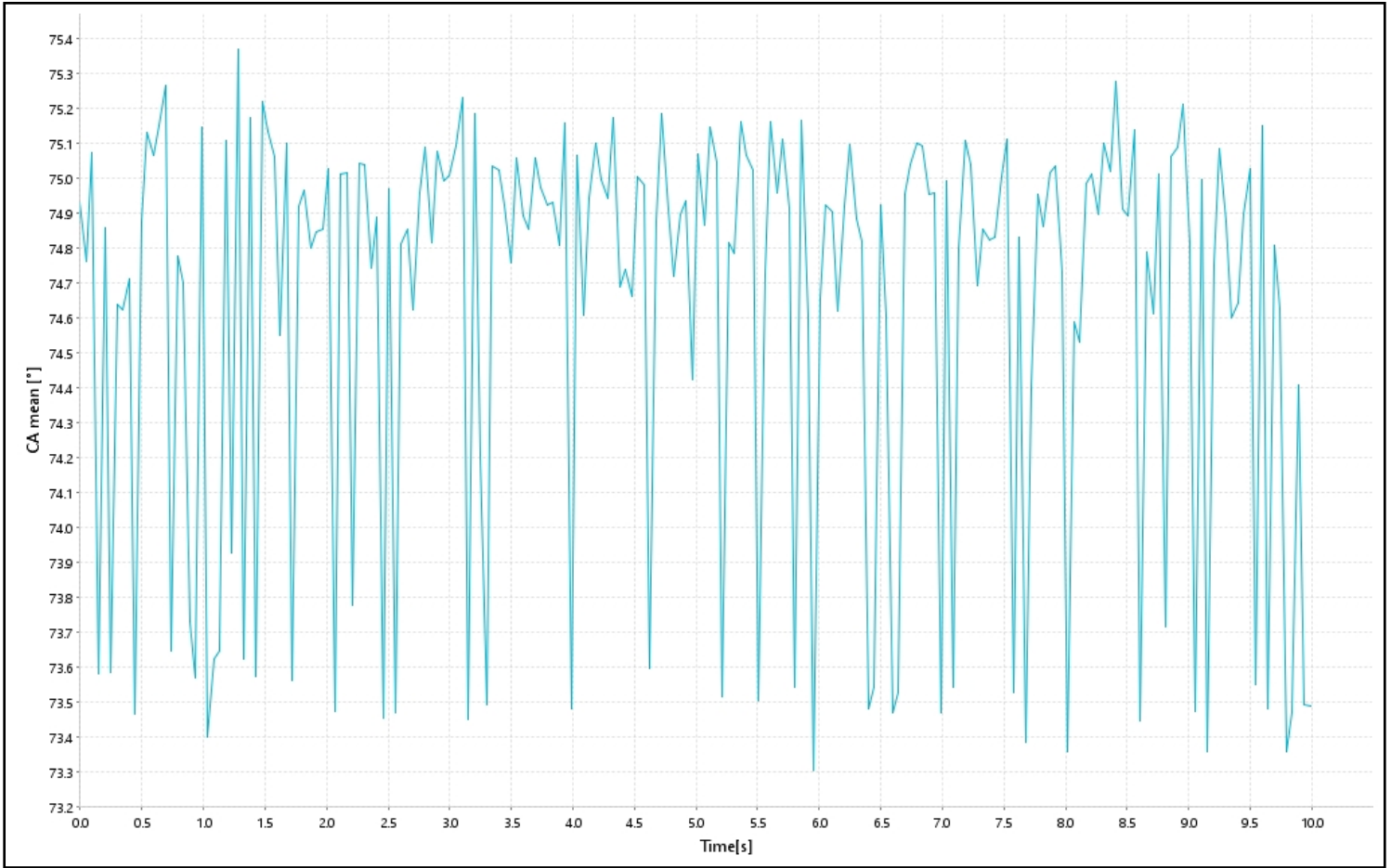
Heavy phase

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	73.77	76.09	74.93	0.33	1.22
0.05	73.58	75.95	74.76	0.33	1.22
0.10	73.72	76.42	75.07	0.34	1.22
0.15	72.45	74.71	73.58	0.33	1.21
0.20	73.36	76.36	74.86	0.34	1.22
0.25	72.55	74.62	73.59	0.32	1.21
0.30	73.46	75.81	74.64	0.33	1.22
0.34	73.58	75.67	74.63	0.33	1.22
0.39	73.56	75.87	74.71	0.33	1.22
0.44	73.49	73.44	73.47	0.29	1.21
0.49	73.80	75.94	74.87	0.33	1.22
0.54	73.95	76.32	75.13	0.33	1.22
0.59	73.79	76.34	75.07	0.33	1.22
0.64	73.76	76.54	75.15	0.34	1.22
0.69	73.86	76.67	75.27	0.34	1.22
0.74	72.78	74.51	73.65	0.32	1.21
0.79	73.66	75.89	74.78	0.33	1.22
0.84	73.51	75.90	74.70	0.33	1.22
0.89	72.75	74.71	73.73	0.32	1.21
0.93	72.76	74.38	73.57	0.32	1.21
0.98	74.10	76.19	75.15	0.33	1.22
1.03	72.85	73.95	73.40	0.31	1.21
1.08	72.89	74.36	73.62	0.31	1.21
1.13	72.35	74.95	73.65	0.33	1.21
1.18	73.42	76.80	75.11	0.34	1.22
1.23	72.80	75.05	73.93	0.32	1.21
1.28	74.16	76.57	75.37	0.33	1.22
1.33	72.74	74.51	73.62	0.32	1.21
1.38	73.52	76.82	75.17	0.34	1.22
1.43	72.57	74.58	73.57	0.32	1.21
1.48	74.30	76.14	75.22	0.32	1.22
1.53	74.14	76.13	75.13	0.33	1.22
1.57	73.90	76.22	75.06	0.33	1.22
1.62	73.46	75.65	74.55	0.33	1.22
1.67	73.58	76.63	75.10	0.34	1.22
1.72	72.52	74.60	73.56	0.33	1.21

1.77	73.35	76.48	74.92	0.34	1.22
1.82	73.73	76.20	74.96	0.33	1.22
1.87	73.41	76.19	74.80	0.33	1.22
1.92	73.41	76.28	74.85	0.33	1.22
1.97	73.23	76.48	74.86	0.34	1.22
2.02	73.63	76.43	75.03	0.34	1.22
2.07	72.83	74.11	73.47	0.31	1.21
2.12	73.95	76.07	75.01	0.33	1.22
2.17	73.78	76.26	75.02	0.33	1.22
2.21	73.21	74.34	73.78	0.31	1.21
2.26	73.80	76.29	75.04	0.33	1.22
2.31	73.47	76.61	75.04	0.34	1.22
2.36	72.99	76.50	74.74	0.34	1.22
2.41	73.29	76.50	74.89	0.34	1.22
2.46	72.72	74.18	73.45	0.31	1.21
2.51	73.86	76.08	74.97	0.33	1.22
2.56	72.60	74.35	73.47	0.32	1.21
2.61	73.44	76.19	74.81	0.33	1.22
2.66	73.59	76.12	74.85	0.33	1.22
2.71	73.64	75.61	74.62	0.32	1.22
2.76	73.89	76.02	74.96	0.32	1.22
2.80	73.77	76.41	75.09	0.33	1.22
2.85	73.73	75.90	74.81	0.33	1.22
2.90	73.71	76.44	75.08	0.33	1.22
2.95	73.66	76.32	74.99	0.33	1.22
3.00	73.85	76.17	75.01	0.33	1.22
3.05	73.91	76.27	75.09	0.33	1.22
3.10	73.88	76.58	75.23	0.33	1.22
3.15	72.50	74.41	73.45	0.32	1.21
3.20	73.70	76.67	75.19	0.34	1.22
3.25	73.14	75.28	74.21	0.33	1.22
3.30	72.62	74.37	73.49	0.32	1.21
3.35	73.69	76.38	75.03	0.33	1.22
3.39	73.64	76.41	75.02	0.33	1.22
3.44	73.56	76.28	74.92	0.33	1.22
3.49	73.56	75.95	74.76	0.33	1.22
3.54	73.82	76.29	75.06	0.33	1.22
3.59	73.67	76.11	74.89	0.33	1.22
3.64	73.63	76.08	74.85	0.33	1.22
3.69	73.80	76.31	75.06	0.33	1.22
3.74	73.82	76.13	74.97	0.33	1.22
3.79	73.65	76.20	74.92	0.33	1.22
3.84	73.57	76.29	74.93	0.33	1.22
3.89	73.55	76.06	74.81	0.33	1.22
3.94	73.80	76.52	75.16	0.33	1.22
3.99	72.67	74.30	73.48	0.32	1.21
4.03	73.80	76.33	75.06	0.33	1.22
4.08	73.40	75.82	74.61	0.33	1.22
4.13	73.61	76.27	74.94	0.33	1.22
4.18	73.82	76.37	75.10	0.33	1.22
4.23	73.69	76.30	75.00	0.33	1.22
4.28	73.61	76.27	74.94	0.33	1.22
4.33	73.80	76.54	75.17	0.33	1.22
4.38	73.46	75.92	74.69	0.33	1.22
4.43	73.50	75.97	74.74	0.33	1.22
4.48	73.36	75.96	74.66	0.33	1.22
4.53	73.68	76.32	75.00	0.33	1.22
4.58	73.64	76.32	74.98	0.33	1.22
4.63	72.66	74.53	73.60	0.32	1.21
4.67	73.65	76.10	74.88	0.33	1.22
4.72	73.78	76.59	75.19	0.33	1.22
4.77	73.56	76.26	74.91	0.33	1.22
4.82	73.53	75.91	74.72	0.33	1.22
4.87	73.69	76.11	74.90	0.33	1.22
4.92	73.65	76.22	74.93	0.33	1.22
4.97	73.32	75.53	74.42	0.33	1.22
5.02	73.73	76.41	75.07	0.33	1.22
5.07	73.56	76.17	74.86	0.33	1.22
5.12	73.86	76.43	75.15	0.33	1.22
5.17	73.68	76.41	75.05	0.33	1.22
5.22	72.63	74.40	73.52	0.32	1.21
5.26	73.58	76.05	74.82	0.33	1.22

5.31	73.48	76.09	74.79	0.33	1.22
5.36	73.82	76.50	75.16	0.33	1.22
5.41	73.74	76.39	75.06	0.33	1.22
5.46	73.76	76.29	75.02	0.33	1.22
5.51	72.61	74.40	73.50	0.32	1.21
5.56	73.53	75.92	74.72	0.33	1.22
5.61	73.87	76.46	75.16	0.33	1.22
5.66	73.65	76.27	74.96	0.33	1.22
5.71	73.75	76.48	75.11	0.33	1.22
5.76	73.69	76.15	74.92	0.33	1.22
5.81	72.62	74.46	73.54	0.32	1.21
5.86	73.85	76.48	75.16	0.33	1.22
5.90	73.47	75.74	74.60	0.33	1.22
5.95	72.44	74.17	73.30	0.32	1.21
6.00	73.47	75.83	74.65	0.33	1.22
6.05	73.61	76.23	74.92	0.33	1.22
6.10	73.58	76.22	74.90	0.33	1.22
6.15	73.51	75.73	74.62	0.33	1.22
6.20	73.66	76.18	74.92	0.33	1.22
6.25	73.76	76.43	75.09	0.33	1.22
6.30	73.57	76.20	74.89	0.33	1.22
6.35	73.63	76.01	74.82	0.33	1.22
6.40	72.64	74.32	73.48	0.32	1.21
6.45	72.67	74.42	73.54	0.32	1.21
6.49	73.62	76.23	74.92	0.33	1.22
6.54	73.39	75.83	74.61	0.33	1.22
6.59	72.67	74.27	73.47	0.32	1.21
6.64	72.53	74.52	73.53	0.32	1.21
6.69	73.59	76.33	74.96	0.33	1.22
6.74	73.69	76.39	75.04	0.33	1.22
6.79	73.76	76.44	75.10	0.33	1.22
6.84	73.75	76.43	75.09	0.33	1.22
6.89	73.66	76.25	74.95	0.33	1.22
6.94	73.51	76.41	74.96	0.33	1.22
6.99	72.57	74.37	73.47	0.32	1.21
7.04	73.63	76.36	74.99	0.33	1.22
7.09	72.67	74.42	73.54	0.32	1.21
7.13	73.62	75.98	74.80	0.33	1.22
7.18	73.78	76.43	75.11	0.33	1.22
7.23	73.62	76.45	75.04	0.33	1.22
7.28	73.31	76.08	74.69	0.33	1.22
7.33	73.50	76.20	74.85	0.33	1.22
7.38	73.69	75.95	74.82	0.33	1.22
7.43	73.61	76.05	74.83	0.33	1.22
7.48	73.75	76.25	75.00	0.33	1.22
7.53	73.69	76.53	75.11	0.33	1.22
7.58	72.67	74.38	73.53	0.32	1.21
7.63	73.60	76.06	74.83	0.33	1.22
7.68	72.57	74.19	73.38	0.32	1.21
7.72	73.19	75.60	74.40	0.33	1.22
7.77	73.64	76.26	74.95	0.33	1.22
7.82	73.49	76.23	74.86	0.33	1.22
7.87	73.68	76.36	75.02	0.33	1.22
7.92	73.75	76.32	75.04	0.33	1.22
7.97	73.66	75.80	74.73	0.33	1.22
8.02	72.51	74.21	73.36	0.31	1.21
8.07	73.41	75.76	74.59	0.33	1.22
8.12	73.21	75.85	74.53	0.33	1.22
8.17	73.62	76.35	74.98	0.33	1.22
8.22	73.74	76.28	75.01	0.33	1.22
8.27	73.67	76.13	74.90	0.33	1.22
8.32	73.79	76.41	75.10	0.33	1.22
8.36	73.69	76.35	75.02	0.33	1.22
8.41	73.93	76.63	75.28	0.33	1.22
8.46	73.52	76.30	74.91	0.33	1.22
8.51	73.54	76.24	74.89	0.33	1.22
8.56	73.84	76.43	75.14	0.33	1.22
8.61	72.70	74.19	73.45	0.31	1.21
8.66	73.61	75.97	74.79	0.33	1.22
8.71	73.29	75.93	74.61	0.33	1.22
8.76	73.68	76.34	75.01	0.33	1.22
8.81	72.81	74.63	73.72	0.32	1.21

8.86	73.78	76.35	75.06	0.33	1.22
8.91	73.72	76.46	75.09	0.33	1.22
8.96	73.78	76.64	75.21	0.33	1.22
9.00	73.60	76.03	74.81	0.33	1.22
9.05	72.66	74.29	73.47	0.31	1.21
9.10	73.75	76.24	75.00	0.33	1.22
9.15	72.48	74.24	73.36	0.32	1.21
9.20	73.41	76.09	74.75	0.33	1.22
9.25	73.62	76.55	75.09	0.33	1.22
9.30	73.51	76.24	74.88	0.33	1.22
9.35	73.38	75.82	74.60	0.33	1.22
9.40	73.43	75.86	74.64	0.33	1.22
9.45	73.65	76.14	74.90	0.33	1.22
9.50	73.65	76.41	75.03	0.33	1.22
9.55	72.47	74.62	73.55	0.32	1.21
9.59	73.82	76.48	75.15	0.33	1.22
9.64	72.56	74.40	73.48	0.32	1.21
9.69	73.66	75.96	74.81	0.33	1.22
9.74	73.45	75.80	74.63	0.33	1.22
9.79	72.57	74.15	73.36	0.31	1.21
9.84	72.57	74.36	73.47	0.32	1.21
9.89	73.22	75.60	74.41	0.33	1.22
9.94	72.55	74.44	73.49	0.32	1.21
9.99	72.60	74.38	73.49	0.32	1.21