

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 13:58:54 BST 2023

Experiment info

Name	csg524 Sample 3.5 Measurement 1
Type	Contact angle
Date	16-May-2023 13:57

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]	

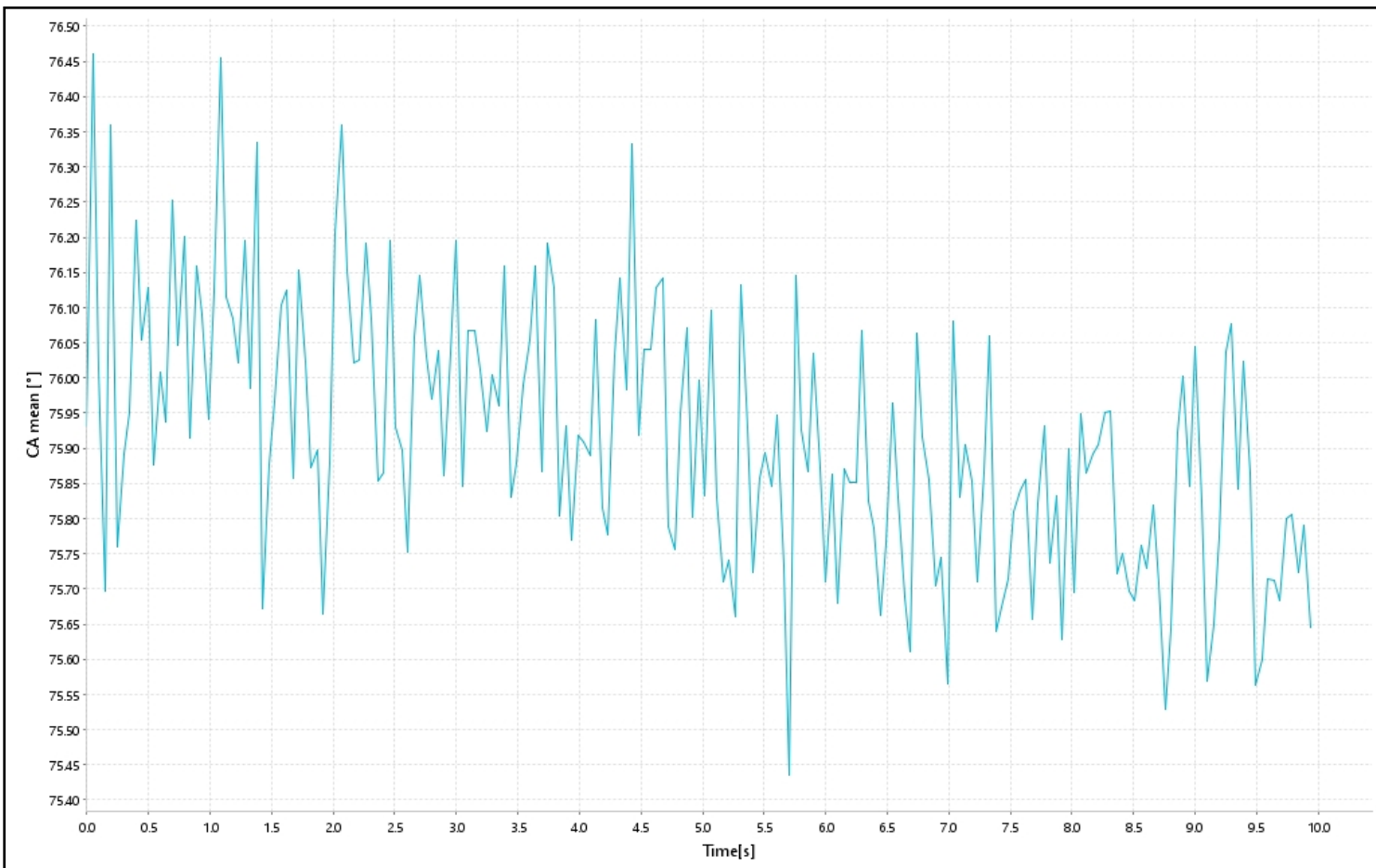
Heavy phase

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	75.36	76.50	75.93	0.31	1.20
0.05	75.94	76.98	76.46	0.32	1.20
0.10	75.48	76.55	76.01	0.31	1.20
0.15	75.21	76.18	75.70	0.31	1.20
0.20	75.83	76.89	76.36	0.31	1.20
0.25	75.14	76.38	75.76	0.31	1.20
0.30	75.37	76.41	75.89	0.31	1.20
0.34	75.43	76.47	75.95	0.31	1.20
0.39	75.70	76.75	76.22	0.31	1.20
0.44	75.35	76.76	76.05	0.32	1.20
0.49	75.58	76.67	76.13	0.32	1.20
0.54	75.42	76.33	75.88	0.31	1.20
0.59	75.60	76.41	76.01	0.31	1.20
0.64	75.42	76.45	75.94	0.31	1.20
0.69	75.78	76.72	76.25	0.31	1.20
0.74	75.56	76.53	76.05	0.31	1.20
0.79	75.79	76.61	76.20	0.31	1.20
0.84	75.59	76.24	75.91	0.31	1.20
0.89	75.45	76.87	76.16	0.32	1.20
0.93	75.27	76.91	76.09	0.32	1.20
0.98	75.04	76.84	75.94	0.32	1.20
1.03	75.39	76.85	76.12	0.32	1.20
1.08	75.93	76.98	76.46	0.32	1.20
1.13	75.73	76.50	76.12	0.31	1.20
1.18	75.84	76.33	76.09	0.30	1.20
1.23	75.68	76.36	76.02	0.31	1.20
1.28	75.86	76.53	76.20	0.31	1.20
1.33	75.45	76.52	75.99	0.31	1.20
1.38	75.78	76.89	76.34	0.32	1.20
1.43	75.08	76.26	75.67	0.31	1.20
1.48	75.26	76.49	75.88	0.31	1.20
1.53	75.40	76.53	75.97	0.31	1.20
1.57	75.57	76.64	76.10	0.31	1.20
1.62	75.69	76.56	76.12	0.31	1.20
1.67	75.36	76.35	75.86	0.31	1.20
1.72	75.62	76.68	76.15	0.31	1.20

1.77	75.41	76.64	76.02	0.31	1.20
1.82	75.16	76.58	75.87	0.31	1.20
1.87	75.25	76.54	75.90	0.32	1.20
1.92	75.02	76.31	75.66	0.31	1.20
1.97	75.27	76.49	75.88	0.31	1.20
2.02	75.73	76.68	76.20	0.31	1.20
2.07	75.91	76.81	76.36	0.31	1.20
2.12	75.74	76.57	76.15	0.31	1.20
2.17	75.58	76.46	76.02	0.31	1.20
2.21	75.43	76.62	76.03	0.31	1.20
2.26	75.50	76.88	76.19	0.32	1.20
2.31	75.38	76.79	76.08	0.32	1.20
2.36	75.23	76.48	75.85	0.31	1.20
2.41	75.40	76.34	75.87	0.31	1.20
2.46	75.80	76.59	76.19	0.31	1.20
2.51	75.42	76.44	75.93	0.31	1.20
2.56	75.31	76.49	75.90	0.31	1.20
2.61	75.13	76.38	75.75	0.31	1.20
2.66	75.50	76.61	76.06	0.31	1.20
2.71	75.67	76.62	76.15	0.31	1.20
2.76	75.69	76.37	76.03	0.31	1.20
2.80	75.66	76.28	75.97	0.31	1.20
2.85	75.64	76.44	76.04	0.31	1.20
2.90	75.34	76.38	75.86	0.31	1.20
2.95	75.42	76.64	76.03	0.31	1.20
3.00	75.57	76.82	76.19	0.32	1.20
3.05	75.21	76.48	75.85	0.31	1.20
3.10	75.47	76.66	76.07	0.31	1.20
3.15	75.54	76.59	76.07	0.31	1.20
3.20	75.45	76.57	76.01	0.31	1.20
3.25	75.38	76.46	75.92	0.31	1.20
3.30	75.53	76.48	76.01	0.31	1.20
3.35	75.49	76.43	75.96	0.31	1.20
3.40	75.68	76.64	76.16	0.31	1.20
3.44	75.27	76.39	75.83	0.31	1.20
3.49	75.32	76.43	75.88	0.31	1.20
3.54	75.41	76.57	75.99	0.31	1.20
3.59	75.42	76.69	76.05	0.31	1.20
3.64	75.65	76.67	76.16	0.31	1.20
3.69	75.39	76.34	75.87	0.31	1.20
3.74	75.75	76.64	76.19	0.31	1.20
3.79	75.51	76.74	76.13	0.31	1.20
3.84	75.23	76.38	75.80	0.31	1.20
3.89	75.37	76.49	75.93	0.31	1.20
3.94	75.22	76.32	75.77	0.31	1.20
3.99	75.44	76.40	75.92	0.31	1.20
4.03	75.24	76.57	75.91	0.31	1.20
4.08	75.20	76.58	75.89	0.31	1.20
4.13	75.40	76.76	76.08	0.31	1.20
4.18	75.07	76.56	75.81	0.31	1.20
4.23	75.22	76.33	75.78	0.31	1.20
4.28	75.52	76.54	76.03	0.31	1.20
4.33	75.70	76.58	76.14	0.31	1.20
4.38	75.58	76.39	75.98	0.31	1.20
4.43	75.99	76.68	76.33	0.31	1.20
4.48	75.33	76.51	75.92	0.31	1.20
4.53	75.47	76.61	76.04	0.31	1.20
4.58	75.42	76.66	76.04	0.32	1.20
4.63	75.46	76.80	76.13	0.32	1.20
4.67	75.48	76.80	76.14	0.32	1.20
4.72	75.12	76.46	75.79	0.31	1.20
4.77	75.15	76.36	75.76	0.31	1.20
4.82	75.40	76.50	75.95	0.31	1.20
4.87	75.54	76.60	76.07	0.31	1.20
4.92	75.22	76.39	75.80	0.31	1.20
4.97	75.41	76.58	76.00	0.31	1.20
5.02	75.37	76.29	75.83	0.31	1.20
5.07	75.66	76.53	76.10	0.31	1.20
5.12	75.22	76.44	75.83	0.31	1.20
5.17	75.07	76.35	75.71	0.31	1.20
5.22	75.09	76.39	75.74	0.31	1.20
5.26	75.14	76.18	75.66	0.31	1.20

5.31	75.67	76.59	76.13	0.31	1.20
5.36	75.48	76.38	75.93	0.31	1.20
5.41	75.24	76.21	75.72	0.31	1.20
5.46	75.26	76.45	75.86	0.31	1.20
5.51	75.37	76.42	75.89	0.31	1.20
5.56	75.43	76.26	75.85	0.31	1.20
5.61	75.55	76.34	75.95	0.31	1.20
5.66	75.34	76.13	75.73	0.31	1.20
5.71	74.91	75.96	75.43	0.31	1.20
5.76	75.53	76.76	76.15	0.31	1.20
5.81	75.26	76.60	75.93	0.32	1.20
5.86	75.15	76.59	75.87	0.32	1.20
5.90	75.42	76.65	76.04	0.31	1.20
5.95	75.48	76.26	75.87	0.31	1.20
6.00	75.35	76.07	75.71	0.30	1.20
6.05	75.52	76.21	75.86	0.31	1.20
6.10	75.20	76.16	75.68	0.31	1.20
6.15	75.30	76.44	75.87	0.31	1.20
6.20	75.18	76.53	75.85	0.31	1.20
6.25	75.30	76.41	75.85	0.31	1.20
6.30	75.65	76.48	76.07	0.31	1.20
6.35	75.32	76.33	75.83	0.31	1.20
6.40	75.23	76.34	75.79	0.31	1.20
6.45	75.32	76.01	75.66	0.31	1.20
6.49	75.42	76.11	75.76	0.30	1.20
6.54	75.60	76.33	75.96	0.31	1.20
6.59	74.97	76.69	75.83	0.32	1.20
6.64	74.71	76.67	75.69	0.32	1.20
6.69	74.71	76.52	75.61	0.32	1.20
6.74	75.35	76.77	76.06	0.32	1.20
6.79	75.45	76.38	75.92	0.31	1.20
6.84	75.56	76.15	75.86	0.31	1.20
6.89	75.37	76.04	75.70	0.30	1.20
6.94	75.39	76.10	75.74	0.31	1.20
6.99	75.01	76.12	75.57	0.31	1.20
7.04	75.41	76.75	76.08	0.32	1.20
7.09	75.03	76.63	75.83	0.32	1.20
7.13	75.13	76.68	75.91	0.32	1.20
7.18	75.22	76.49	75.85	0.31	1.20
7.23	75.24	76.18	75.71	0.31	1.20
7.28	75.52	76.21	75.86	0.31	1.20
7.33	75.71	76.41	76.06	0.31	1.20
7.38	75.10	76.18	75.64	0.31	1.20
7.43	75.02	76.33	75.67	0.31	1.20
7.48	75.09	76.34	75.71	0.31	1.20
7.53	75.29	76.33	75.81	0.31	1.20
7.58	75.25	76.43	75.84	0.31	1.20
7.63	75.29	76.42	75.86	0.31	1.20
7.68	75.05	76.26	75.66	0.31	1.20
7.73	75.26	76.38	75.82	0.31	1.20
7.77	75.34	76.52	75.93	0.31	1.20
7.82	75.07	76.40	75.74	0.31	1.20
7.87	75.20	76.47	75.83	0.31	1.20
7.92	74.94	76.31	75.63	0.31	1.20
7.97	75.26	76.54	75.90	0.31	1.20
8.02	75.14	76.25	75.70	0.31	1.20
8.07	75.37	76.53	75.95	0.31	1.20
8.12	75.31	76.42	75.87	0.31	1.20
8.17	75.34	76.44	75.89	0.31	1.20
8.22	75.39	76.41	75.90	0.31	1.20
8.27	75.51	76.39	75.95	0.31	1.20
8.32	75.56	76.35	75.95	0.31	1.20
8.36	75.26	76.19	75.72	0.31	1.20
8.41	75.25	76.25	75.75	0.31	1.20
8.46	75.08	76.32	75.70	0.31	1.20
8.51	75.03	76.34	75.68	0.32	1.20
8.56	75.08	76.44	75.76	0.31	1.20
8.61	75.04	76.42	75.73	0.32	1.20
8.66	75.09	76.55	75.82	0.32	1.20
8.71	74.90	76.51	75.71	0.32	1.20
8.76	74.80	76.26	75.53	0.31	1.20
8.81	75.14	76.15	75.64	0.31	1.20

8.86	75.42	76.43	75.92	0.31	1.20
8.91	75.64	76.37	76.00	0.31	1.20
8.96	75.48	76.21	75.85	0.31	1.20
9.00	75.52	76.57	76.04	0.31	1.20
9.05	75.20	76.44	75.82	0.31	1.20
9.10	74.95	76.19	75.57	0.31	1.20
9.15	75.06	76.24	75.65	0.31	1.20
9.20	75.14	76.41	75.77	0.31	1.20
9.25	75.64	76.43	76.04	0.31	1.20
9.30	75.60	76.56	76.08	0.31	1.20
9.35	75.25	76.43	75.84	0.31	1.20
9.40	75.52	76.53	76.02	0.31	1.20
9.45	75.47	76.27	75.87	0.31	1.20
9.50	75.29	75.84	75.56	0.30	1.20
9.55	75.32	75.88	75.60	0.30	1.20
9.59	75.45	75.98	75.71	0.30	1.20
9.64	75.30	76.12	75.71	0.31	1.20
9.69	75.04	76.32	75.68	0.31	1.20
9.74	75.03	76.57	75.80	0.32	1.20
9.79	74.90	76.71	75.81	0.32	1.20
9.84	74.80	76.65	75.72	0.32	1.20
9.89	75.10	76.49	75.79	0.31	1.20
9.94	75.23	76.06	75.65	0.31	1.20