

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:59:08 BST 2023

Experiment info

Name	csg524 Treated Sample 4 Measurement 2
Type	Contact angle
Date	18-May-2023 15:36

Solid

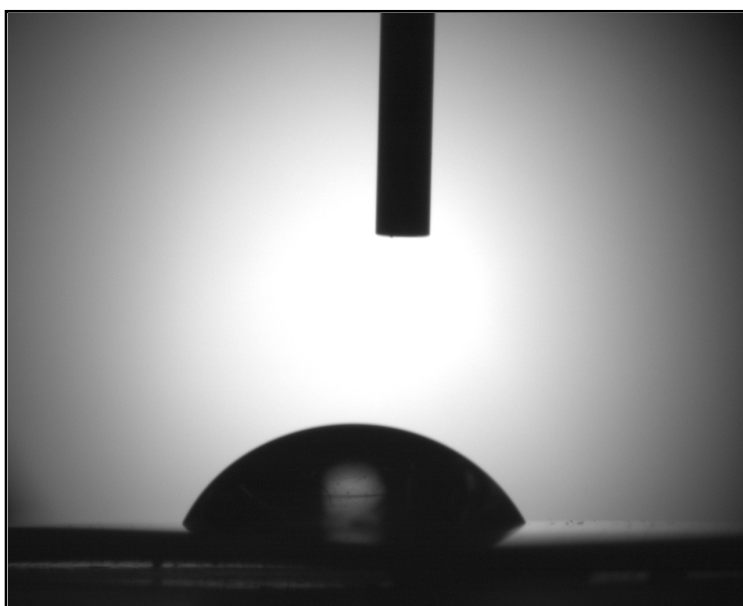
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

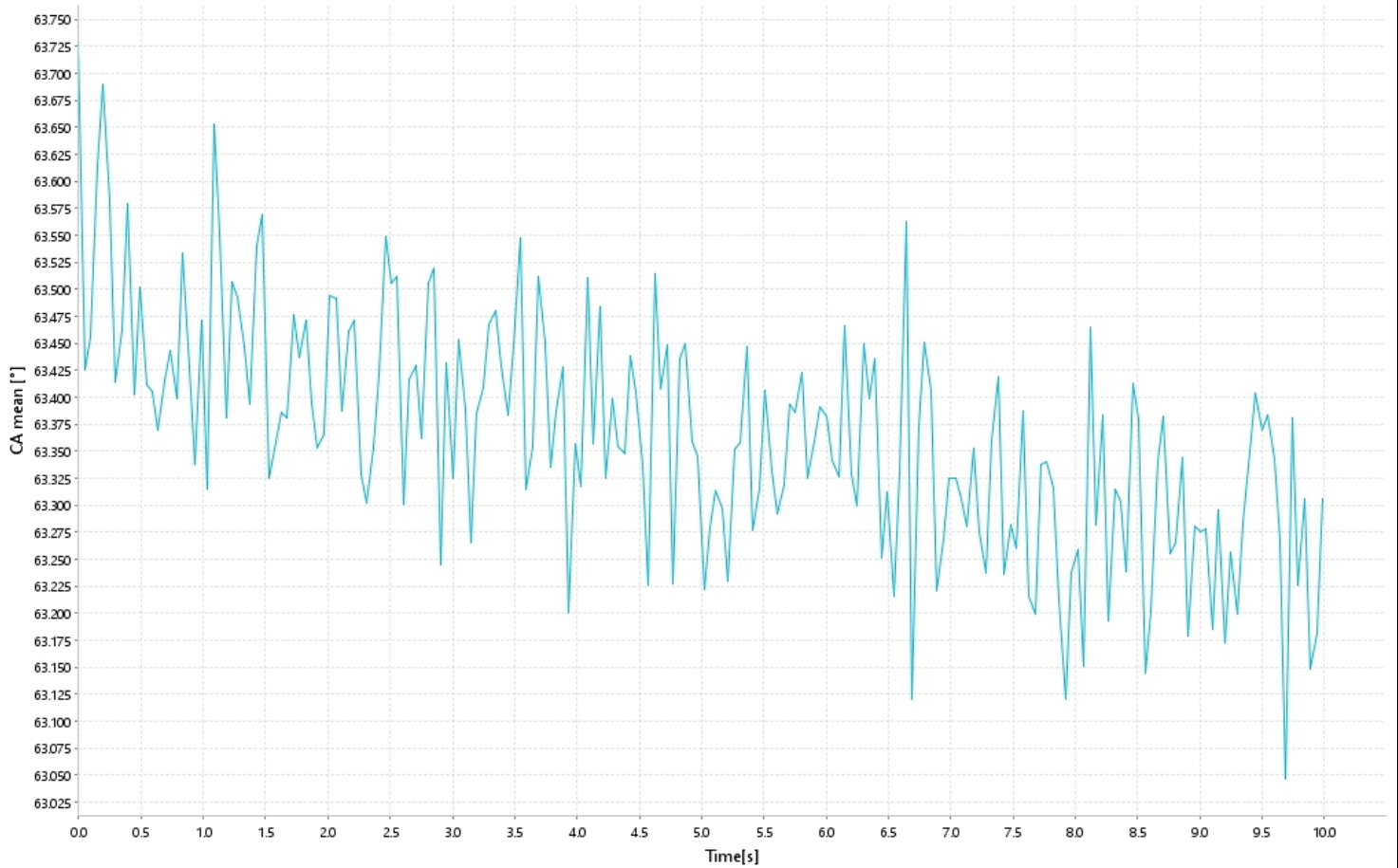
Heavy phase

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	64.46	62.99	63.73	0.24	1.28
0.05	64.16	62.69	63.43	0.24	1.28
0.10	64.24	62.67	63.46	0.24	1.28
0.15	64.33	62.90	63.61	0.24	1.28
0.20	64.32	63.06	63.69	0.25	1.28
0.25	64.24	62.93	63.58	0.24	1.28
0.30	64.15	62.68	63.41	0.24	1.28
0.34	64.13	62.80	63.46	0.24	1.28
0.39	64.38	62.77	63.58	0.24	1.28
0.44	64.09	62.71	63.40	0.24	1.28
0.49	64.24	62.76	63.50	0.24	1.28
0.54	64.07	62.75	63.41	0.24	1.28
0.59	64.10	62.71	63.40	0.24	1.28
0.64	64.07	62.67	63.37	0.24	1.28
0.69	64.13	62.70	63.42	0.24	1.28
0.74	64.12	62.76	63.44	0.24	1.28
0.79	64.13	62.67	63.40	0.24	1.28
0.84	64.31	62.75	63.53	0.24	1.28
0.89	64.11	62.74	63.43	0.24	1.28
0.93	64.04	62.63	63.34	0.24	1.28
0.98	64.10	62.84	63.47	0.24	1.28
1.03	63.98	62.65	63.31	0.24	1.28
1.08	64.38	62.92	63.65	0.24	1.28
1.13	64.25	62.86	63.55	0.24	1.28
1.18	64.14	62.62	63.38	0.24	1.28
1.23	64.25	62.76	63.51	0.24	1.28
1.28	64.24	62.74	63.49	0.24	1.28
1.33	64.14	62.76	63.45	0.24	1.28
1.38	64.12	62.67	63.39	0.24	1.28
1.43	64.26	62.82	63.54	0.24	1.28
1.48	64.29	62.85	63.57	0.24	1.28
1.53	64.10	62.55	63.33	0.24	1.28
1.57	64.04	62.67	63.35	0.24	1.28
1.62	64.09	62.68	63.39	0.24	1.28
1.67	64.06	62.71	63.38	0.24	1.28
1.72	64.11	62.84	63.48	0.24	1.28

1.77	64.14	62.73	63.44	0.24	1.28
1.82	64.13	62.81	63.47	0.24	1.28
1.87	64.10	62.69	63.40	0.24	1.28
1.92	64.02	62.69	63.35	0.24	1.28
1.97	64.07	62.67	63.37	0.24	1.28
2.02	64.21	62.78	63.49	0.24	1.28
2.07	64.27	62.72	63.49	0.24	1.28
2.12	64.06	62.71	63.39	0.24	1.28
2.16	64.17	62.76	63.46	0.24	1.28
2.21	64.18	62.76	63.47	0.24	1.28
2.26	63.34	63.32	63.33	0.27	1.28
2.31	64.02	62.59	63.30	0.24	1.28
2.36	63.96	62.75	63.35	0.24	1.28
2.41	64.12	62.72	63.42	0.24	1.28
2.46	64.29	62.80	63.55	0.24	1.28
2.51	64.19	62.82	63.51	0.24	1.28
2.56	64.22	62.80	63.51	0.24	1.28
2.61	64.00	62.60	63.30	0.24	1.28
2.66	64.11	62.72	63.42	0.24	1.28
2.71	64.18	62.67	63.43	0.24	1.28
2.76	64.07	62.65	63.36	0.24	1.28
2.80	64.18	62.83	63.51	0.24	1.28
2.85	64.22	62.82	63.52	0.24	1.28
2.90	63.91	62.58	63.24	0.24	1.27
2.95	64.11	62.75	63.43	0.24	1.28
3.00	64.01	62.64	63.32	0.24	1.28
3.05	64.13	62.78	63.45	0.24	1.28
3.10	64.05	62.73	63.39	0.24	1.28
3.15	63.95	62.58	63.27	0.24	1.28
3.20	64.12	62.65	63.38	0.24	1.28
3.25	64.14	62.68	63.41	0.24	1.28
3.30	64.16	62.78	63.47	0.24	1.28
3.35	64.17	62.79	63.48	0.24	1.28
3.40	64.13	62.73	63.43	0.24	1.28
3.44	64.12	62.64	63.38	0.24	1.28
3.49	64.22	62.68	63.45	0.24	1.28
3.54	64.29	62.80	63.55	0.24	1.28
3.59	64.00	62.63	63.31	0.24	1.28
3.64	64.05	62.66	63.35	0.24	1.28
3.69	64.15	62.87	63.51	0.24	1.28
3.74	64.11	62.80	63.45	0.24	1.28
3.79	64.02	62.65	63.34	0.24	1.28
3.84	64.11	62.66	63.39	0.24	1.28
3.89	64.11	62.75	63.43	0.24	1.28
3.94	63.90	62.50	63.20	0.24	1.28
3.99	64.03	62.68	63.36	0.24	1.28
4.03	63.93	62.71	63.32	0.24	1.28
4.08	64.25	62.77	63.51	0.24	1.28
4.13	64.01	62.70	63.36	0.24	1.28
4.18	64.14	62.83	63.48	0.24	1.28
4.23	64.03	62.62	63.32	0.24	1.28
4.28	64.16	62.64	63.40	0.24	1.28
4.33	64.06	62.65	63.35	0.24	1.28
4.38	64.01	62.68	63.35	0.24	1.28
4.43	64.06	62.82	63.44	0.24	1.28
4.48	64.07	62.74	63.40	0.24	1.28
4.53	64.01	62.66	63.34	0.24	1.28
4.58	63.95	62.50	63.23	0.24	1.28
4.63	64.26	62.77	63.51	0.24	1.28
4.67	64.17	62.64	63.41	0.24	1.28
4.72	64.18	62.72	63.45	0.24	1.28
4.77	63.95	62.51	63.23	0.24	1.28
4.82	64.20	62.67	63.44	0.24	1.28
4.87	64.21	62.69	63.45	0.24	1.28
4.92	64.03	62.69	63.36	0.24	1.28
4.97	64.02	62.67	63.35	0.24	1.28
5.02	63.92	62.52	63.22	0.24	1.28
5.07	63.95	62.61	63.28	0.24	1.27
5.12	64.03	62.60	63.31	0.24	1.28
5.17	63.99	62.60	63.30	0.24	1.28
5.22	63.94	62.52	63.23	0.24	1.28
5.26	64.12	62.58	63.35	0.24	1.28

5.31	64.04	62.68	63.36	0.24	1.28
5.36	64.22	62.67	63.45	0.24	1.28
5.41	64.00	62.56	63.28	0.24	1.28
5.46	64.00	62.63	63.31	0.24	1.28
5.51	64.11	62.70	63.41	0.24	1.28
5.56	64.00	62.66	63.33	0.24	1.28
5.61	64.00	62.58	63.29	0.24	1.28
5.66	64.02	62.62	63.32	0.24	1.28
5.71	64.13	62.66	63.39	0.24	1.28
5.76	64.10	62.67	63.39	0.24	1.28
5.81	64.17	62.67	63.42	0.24	1.28
5.86	64.09	62.56	63.33	0.24	1.28
5.90	64.04	62.68	63.36	0.24	1.28
5.95	64.16	62.62	63.39	0.24	1.28
6.00	64.03	62.74	63.38	0.24	1.28
6.05	64.03	62.66	63.34	0.24	1.28
6.10	64.08	62.57	63.33	0.24	1.28
6.15	64.23	62.70	63.47	0.24	1.28
6.20	64.10	62.56	63.33	0.24	1.28
6.25	63.99	62.61	63.30	0.24	1.28
6.30	64.15	62.75	63.45	0.24	1.28
6.35	64.05	62.75	63.40	0.24	1.28
6.40	64.10	62.77	63.43	0.24	1.28
6.45	63.90	62.60	63.25	0.24	1.28
6.49	64.04	62.59	63.31	0.24	1.28
6.54	64.01	62.42	63.22	0.24	1.28
6.59	64.06	62.60	63.33	0.24	1.28
6.64	64.24	62.88	63.56	0.24	1.28
6.69	63.79	62.45	63.12	0.24	1.27
6.74	64.09	62.65	63.37	0.24	1.28
6.79	64.13	62.77	63.45	0.24	1.28
6.84	64.12	62.70	63.41	0.24	1.28
6.89	63.89	62.55	63.22	0.24	1.28
6.94	64.00	62.53	63.27	0.24	1.28
6.99	64.06	62.59	63.32	0.24	1.28
7.04	63.36	63.29	63.33	0.27	1.28
7.09	64.01	62.60	63.31	0.24	1.28
7.13	64.00	62.56	63.28	0.24	1.28
7.18	64.07	62.63	63.35	0.24	1.28
7.23	64.01	62.55	63.28	0.24	1.28
7.28	63.94	62.54	63.24	0.24	1.28
7.33	64.11	62.61	63.36	0.24	1.28
7.38	64.15	62.69	63.42	0.24	1.28
7.43	63.93	62.54	63.24	0.24	1.28
7.48	63.99	62.58	63.28	0.24	1.28
7.53	63.99	62.54	63.26	0.24	1.28
7.58	64.09	62.68	63.39	0.24	1.28
7.63	63.93	62.50	63.22	0.24	1.28
7.68	63.90	62.50	63.20	0.24	1.28
7.73	64.13	62.55	63.34	0.24	1.28
7.77	64.08	62.60	63.34	0.24	1.28
7.82	64.08	62.56	63.32	0.24	1.28
7.87	63.93	62.49	63.21	0.24	1.28
7.92	63.85	62.39	63.12	0.24	1.27
7.97	63.96	62.52	63.24	0.24	1.28
8.02	64.01	62.51	63.26	0.24	1.28
8.07	63.87	62.43	63.15	0.24	1.28
8.12	64.15	62.77	63.46	0.24	1.28
8.17	63.99	62.58	63.28	0.24	1.28
8.22	64.12	62.64	63.38	0.24	1.28
8.27	63.85	62.54	63.19	0.24	1.28
8.32	64.01	62.62	63.32	0.24	1.28
8.36	63.96	62.65	63.30	0.24	1.28
8.41	63.97	62.51	63.24	0.24	1.28
8.46	64.05	62.78	63.41	0.24	1.28
8.51	64.09	62.67	63.38	0.24	1.28
8.56	63.88	62.41	63.14	0.24	1.28
8.61	63.94	62.46	63.20	0.24	1.28
8.66	64.05	62.63	63.34	0.24	1.28
8.71	64.08	62.68	63.38	0.24	1.28
8.76	64.03	62.48	63.26	0.24	1.28
8.81	63.93	62.60	63.27	0.24	1.28

8.86	64.05	62.64	63.34	0.24	1.28
8.91	63.88	62.48	63.18	0.24	1.28
8.96	63.92	62.64	63.28	0.24	1.28
9.00	63.99	62.56	63.28	0.24	1.28
9.05	64.02	62.54	63.28	0.24	1.28
9.10	63.92	62.46	63.19	0.24	1.28
9.15	63.99	62.60	63.30	0.24	1.28
9.20	63.93	62.41	63.17	0.24	1.28
9.25	64.03	62.48	63.26	0.24	1.28
9.30	63.92	62.48	63.20	0.24	1.28
9.35	64.01	62.55	63.28	0.24	1.28
9.40	63.97	62.72	63.35	0.24	1.28
9.45	64.15	62.66	63.40	0.24	1.28
9.50	64.07	62.67	63.37	0.24	1.28
9.55	64.07	62.70	63.38	0.24	1.28
9.59	64.08	62.60	63.34	0.24	1.28
9.64	63.99	62.55	63.27	0.24	1.28
9.69	63.71	62.38	63.05	0.24	1.28
9.74	64.15	62.61	63.38	0.24	1.28
9.79	63.95	62.51	63.23	0.24	1.28
9.84	64.04	62.58	63.31	0.24	1.28
9.89	63.87	62.42	63.15	0.24	1.28
9.94	63.84	62.52	63.18	0.24	1.28
9.99	64.01	62.61	63.31	0.24	1.28