

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:59:13 BST 2023

Experiment info

Name	csg524 Treated Sample 4 Measurement 3
Type	Contact angle
Date	18-May-2023 15:39

Solid

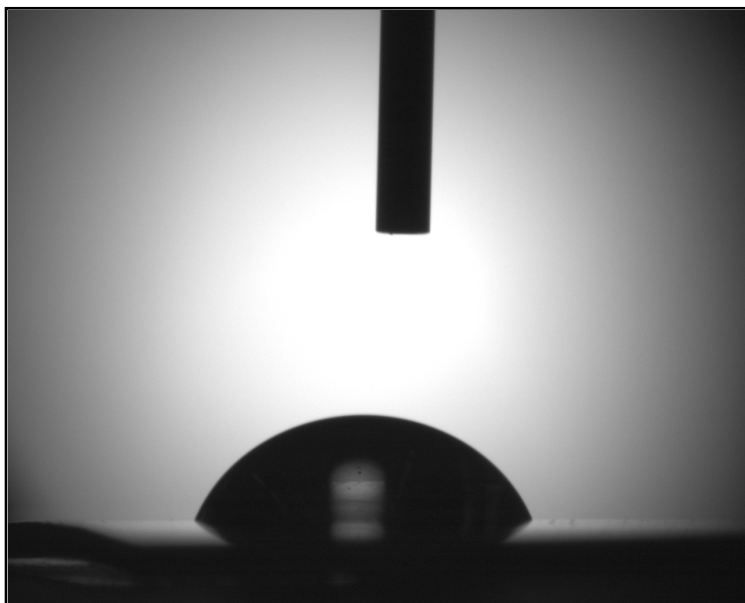
Name	polypropylene untreated
γ_{tot} [mN/m]	25.700
γ_{d} [mN/m]	25.300
γ_{+} [mN/m]	0.090
γ_{-} [mN/m]	0.500
ρ [g/cm ³]	

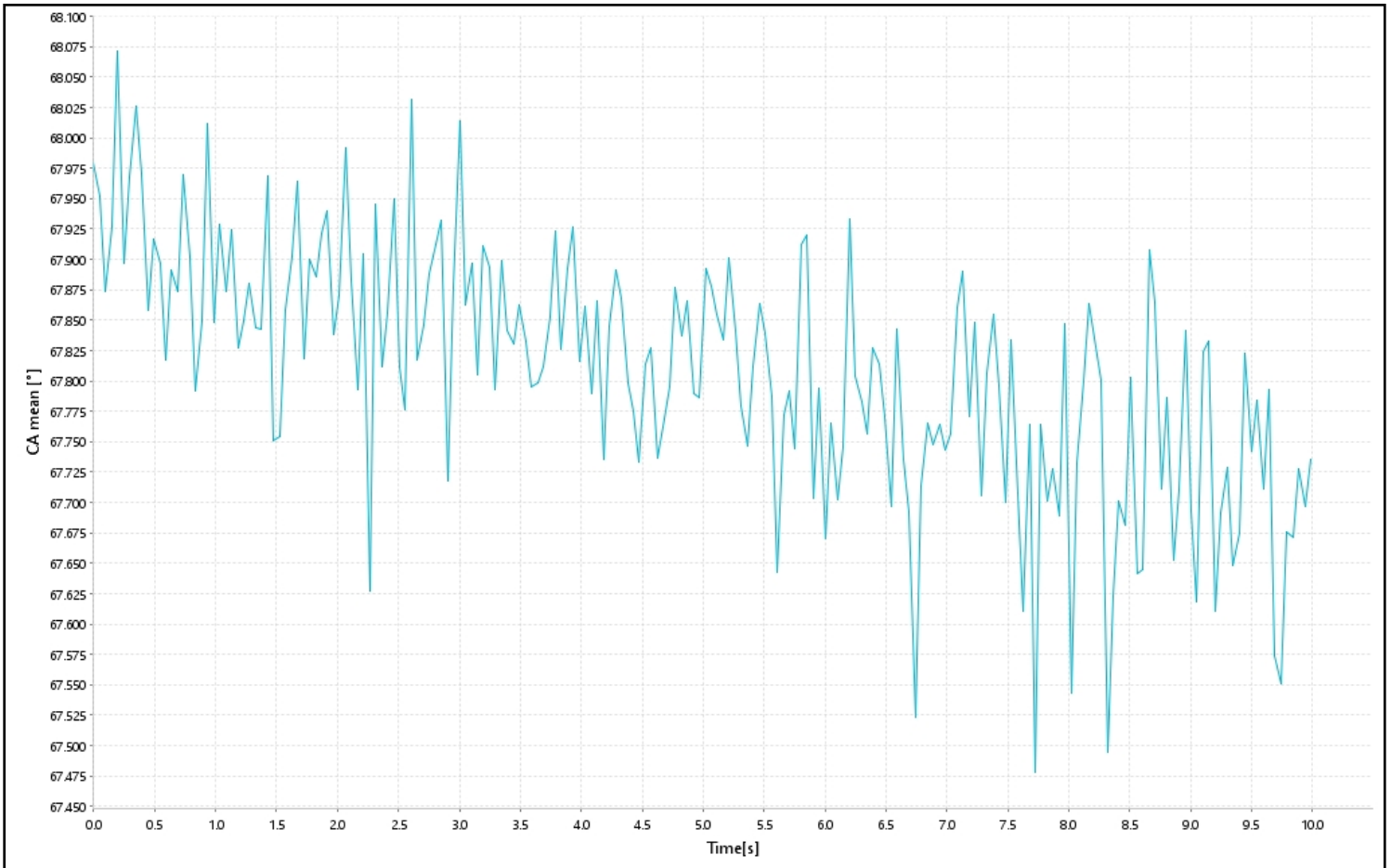
Heavy phase

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	67.86	68.10	67.98	0.28	1.25
0.05	68.03	67.87	67.95	0.28	1.25
0.10	67.96	67.79	67.87	0.28	1.25
0.15	68.03	67.82	67.93	0.28	1.25
0.20	68.02	68.12	68.07	0.28	1.25
0.25	67.80	67.99	67.90	0.28	1.25
0.30	67.91	68.02	67.97	0.28	1.25
0.34	67.98	68.07	68.03	0.28	1.25
0.39	67.94	68.00	67.97	0.28	1.25
0.44	67.81	67.90	67.86	0.28	1.25
0.49	67.87	67.96	67.92	0.28	1.25
0.54	67.92	67.87	67.90	0.28	1.25
0.59	67.80	67.84	67.82	0.28	1.25
0.64	67.88	67.90	67.89	0.28	1.25
0.69	67.81	67.94	67.87	0.28	1.25
0.74	68.00	67.94	67.97	0.28	1.25
0.79	67.81	67.99	67.90	0.28	1.25
0.84	67.88	67.71	67.79	0.28	1.25
0.89	67.87	67.83	67.85	0.28	1.25
0.93	67.91	68.11	68.01	0.28	1.25
0.98	67.77	67.93	67.85	0.28	1.25
1.03	67.81	68.05	67.93	0.29	1.25
1.08	67.74	68.01	67.87	0.29	1.25
1.13	67.92	67.93	67.92	0.28	1.25
1.18	67.88	67.78	67.83	0.28	1.25
1.23	67.90	67.80	67.85	0.28	1.25
1.28	67.93	67.83	67.88	0.28	1.25
1.33	67.80	67.89	67.84	0.28	1.25
1.38	67.67	68.02	67.84	0.28	1.25
1.43	67.94	67.99	67.97	0.28	1.25
1.48	67.73	67.77	67.75	0.28	1.25
1.53	67.79	67.72	67.75	0.28	1.25
1.57	67.80	67.92	67.86	0.28	1.25
1.62	67.89	67.92	67.90	0.28	1.25
1.67	67.97	67.96	67.96	0.28	1.25
1.72	67.70	67.93	67.82	0.28	1.25

1.77	67.87	67.94	67.90	0.28	1.25
1.82	67.86	67.91	67.89	0.28	1.25
1.87	67.91	67.93	67.92	0.28	1.25
1.92	67.89	67.99	67.94	0.28	1.25
1.97	67.75	67.93	67.84	0.28	1.25
2.02	67.78	67.96	67.87	0.28	1.25
2.07	67.89	68.10	67.99	0.28	1.25
2.12	67.88	67.89	67.88	0.28	1.25
2.16	67.79	67.80	67.79	0.28	1.25
2.21	67.87	67.94	67.90	0.28	1.25
2.26	67.59	67.66	67.63	0.28	1.25
2.31	67.91	67.99	67.95	0.28	1.25
2.36	67.76	67.86	67.81	0.28	1.25
2.41	67.83	67.88	67.86	0.28	1.25
2.46	67.88	68.02	67.95	0.28	1.25
2.51	67.71	67.92	67.81	0.28	1.25
2.56	67.80	67.75	67.78	0.28	1.25
2.61	68.00	68.06	68.03	0.28	1.25
2.66	67.84	67.79	67.82	0.28	1.25
2.71	67.77	67.92	67.85	0.28	1.25
2.76	67.83	67.94	67.89	0.28	1.25
2.80	67.85	67.98	67.91	0.28	1.25
2.85	67.96	67.91	67.93	0.28	1.25
2.90	67.67	67.76	67.72	0.28	1.25
2.95	67.87	67.88	67.88	0.28	1.25
3.00	67.96	68.07	68.01	0.28	1.25
3.05	67.84	67.89	67.86	0.28	1.25
3.10	67.84	67.95	67.90	0.28	1.25
3.15	67.68	67.93	67.80	0.28	1.25
3.20	67.91	67.91	67.91	0.28	1.25
3.25	67.85	67.94	67.89	0.28	1.25
3.30	67.69	67.90	67.79	0.28	1.25
3.35	67.90	67.90	67.90	0.28	1.25
3.40	67.81	67.87	67.84	0.28	1.25
3.44	67.74	67.92	67.83	0.28	1.25
3.49	67.84	67.89	67.86	0.28	1.25
3.54	67.73	67.93	67.83	0.28	1.25
3.59	67.61	67.98	67.79	0.29	1.25
3.64	67.79	67.81	67.80	0.28	1.25
3.69	67.87	67.75	67.81	0.28	1.25
3.74	67.85	67.85	67.85	0.28	1.25
3.79	67.91	67.94	67.92	0.28	1.25
3.84	67.83	67.82	67.83	0.28	1.25
3.89	67.77	68.01	67.89	0.28	1.25
3.94	67.84	68.01	67.93	0.28	1.25
3.99	67.84	67.80	67.82	0.28	1.25
4.03	67.84	67.88	67.86	0.28	1.25
4.08	67.73	67.85	67.79	0.28	1.25
4.13	67.94	67.79	67.87	0.28	1.25
4.18	67.63	67.84	67.74	0.28	1.25
4.23	67.76	67.92	67.84	0.28	1.25
4.28	67.92	67.86	67.89	0.28	1.25
4.33	67.68	68.05	67.87	0.29	1.25
4.38	67.70	67.89	67.80	0.28	1.25
4.43	67.76	67.79	67.78	0.28	1.25
4.48	67.78	67.68	67.73	0.28	1.25
4.53	67.86	67.76	67.81	0.28	1.25
4.58	67.79	67.87	67.83	0.28	1.25
4.63	67.65	67.82	67.74	0.29	1.25
4.67	67.67	67.85	67.76	0.28	1.25
4.72	67.73	67.86	67.80	0.28	1.25
4.77	67.83	67.92	67.88	0.28	1.25
4.82	67.77	67.91	67.84	0.28	1.25
4.87	67.80	67.93	67.87	0.28	1.25
4.92	67.84	67.74	67.79	0.28	1.25
4.97	67.72	67.85	67.79	0.28	1.25
5.02	67.80	67.98	67.89	0.28	1.25
5.07	67.95	67.81	67.88	0.28	1.25
5.12	67.71	68.00	67.85	0.29	1.25
5.17	67.85	67.81	67.83	0.28	1.25
5.22	67.80	68.01	67.90	0.28	1.25
5.26	67.76	67.92	67.84	0.28	1.25

5.31	67.70	67.86	67.78	0.28	1.25
5.36	67.75	67.74	67.75	0.28	1.25
5.41	67.78	67.84	67.81	0.28	1.25
5.46	67.74	67.98	67.86	0.28	1.25
5.51	67.80	67.88	67.84	0.28	1.25
5.56	67.76	67.82	67.79	0.28	1.25
5.61	67.59	67.70	67.64	0.28	1.25
5.66	67.67	67.87	67.77	0.28	1.25
5.71	67.74	67.85	67.79	0.28	1.25
5.76	67.70	67.78	67.74	0.28	1.25
5.81	67.83	67.99	67.91	0.29	1.25
5.86	67.94	67.90	67.92	0.28	1.25
5.90	67.69	67.72	67.70	0.28	1.25
5.95	67.74	67.85	67.79	0.28	1.25
6.00	67.54	67.80	67.67	0.28	1.25
6.05	67.75	67.78	67.77	0.28	1.25
6.10	67.70	67.71	67.70	0.28	1.25
6.15	67.73	67.76	67.75	0.28	1.25
6.20	67.80	68.07	67.93	0.28	1.25
6.25	67.67	67.94	67.80	0.28	1.25
6.30	67.84	67.72	67.78	0.28	1.25
6.35	67.71	67.80	67.76	0.28	1.25
6.40	67.70	67.95	67.83	0.28	1.25
6.45	67.79	67.83	67.81	0.28	1.25
6.49	67.72	67.82	67.77	0.28	1.25
6.54	67.64	67.76	67.70	0.28	1.25
6.59	67.82	67.87	67.84	0.28	1.25
6.64	67.66	67.81	67.74	0.28	1.25
6.69	67.63	67.75	67.69	0.28	1.25
6.74	67.47	67.58	67.52	0.28	1.25
6.79	67.68	67.75	67.71	0.28	1.25
6.84	67.83	67.70	67.77	0.28	1.25
6.89	67.74	67.76	67.75	0.28	1.25
6.94	67.76	67.77	67.76	0.28	1.25
6.99	67.67	67.82	67.74	0.28	1.25
7.04	67.67	67.84	67.76	0.28	1.25
7.09	67.88	67.84	67.86	0.28	1.25
7.13	67.80	67.98	67.89	0.28	1.25
7.18	67.75	67.79	67.77	0.28	1.25
7.23	67.82	67.88	67.85	0.28	1.25
7.28	67.72	67.69	67.71	0.28	1.25
7.33	67.72	67.89	67.81	0.28	1.25
7.38	67.81	67.90	67.86	0.28	1.25
7.43	67.83	67.76	67.80	0.28	1.25
7.48	67.73	67.67	67.70	0.28	1.25
7.53	67.85	67.82	67.83	0.28	1.25
7.58	67.72	67.70	67.71	0.28	1.25
7.63	67.57	67.65	67.61	0.28	1.25
7.68	67.80	67.73	67.76	0.28	1.25
7.72	67.49	67.46	67.48	0.28	1.25
7.77	67.62	67.91	67.76	0.28	1.25
7.82	67.66	67.74	67.70	0.28	1.25
7.87	67.69	67.76	67.73	0.28	1.25
7.92	67.64	67.74	67.69	0.28	1.25
7.97	67.78	67.91	67.85	0.28	1.25
8.02	67.36	67.73	67.54	0.28	1.25
8.07	67.65	67.82	67.73	0.28	1.25
8.12	67.74	67.86	67.80	0.28	1.25
8.17	67.89	67.84	67.86	0.28	1.25
8.22	67.72	67.93	67.83	0.28	1.25
8.27	67.67	67.93	67.80	0.28	1.25
8.32	67.35	67.64	67.49	0.28	1.25
8.36	67.60	67.65	67.62	0.28	1.25
8.41	67.64	67.76	67.70	0.28	1.25
8.46	67.64	67.72	67.68	0.28	1.25
8.51	67.77	67.84	67.80	0.28	1.25
8.56	67.64	67.64	67.64	0.28	1.25
8.61	67.53	67.76	67.64	0.28	1.25
8.66	67.84	67.97	67.91	0.28	1.25
8.71	67.90	67.83	67.86	0.28	1.25
8.76	67.73	67.69	67.71	0.28	1.25
8.81	67.72	67.85	67.79	0.28	1.25

8.86	67.64	67.67	67.65	0.28	1.25
8.91	67.59	67.83	67.71	0.28	1.25
8.96	67.81	67.88	67.84	0.28	1.25
9.00	67.80	67.58	67.69	0.28	1.25
9.05	67.58	67.65	67.62	0.28	1.25
9.10	67.79	67.86	67.82	0.28	1.25
9.15	67.79	67.87	67.83	0.28	1.25
9.20	67.58	67.64	67.61	0.28	1.25
9.25	67.69	67.69	67.69	0.28	1.25
9.30	67.67	67.79	67.73	0.28	1.25
9.35	67.62	67.68	67.65	0.28	1.25
9.40	67.66	67.69	67.68	0.28	1.25
9.45	67.74	67.91	67.82	0.28	1.25
9.50	67.62	67.86	67.74	0.28	1.25
9.55	67.77	67.80	67.78	0.28	1.25
9.59	67.67	67.75	67.71	0.28	1.25
9.64	67.72	67.87	67.79	0.28	1.25
9.69	67.47	67.68	67.57	0.28	1.25
9.74	67.50	67.61	67.55	0.28	1.25
9.79	67.62	67.73	67.68	0.28	1.25
9.84	67.58	67.76	67.67	0.28	1.25
9.89	67.68	67.77	67.73	0.28	1.25
9.94	67.65	67.75	67.70	0.28	1.25
9.99	67.81	67.66	67.74	0.28	1.25