

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:36:08 BST 2023

## Experiment info

Name	csg524 Sample 5 Measurement 3
Type	Contact angle
Date	16-May-2023 14:29

## Solid

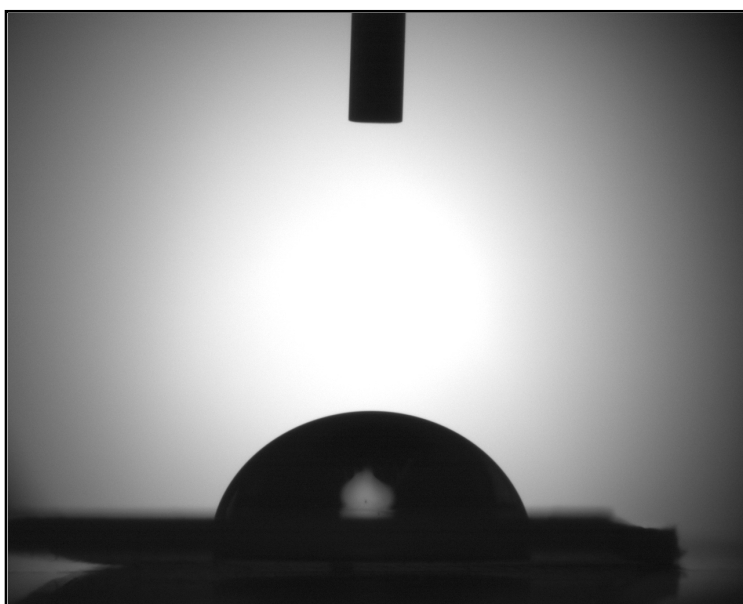
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

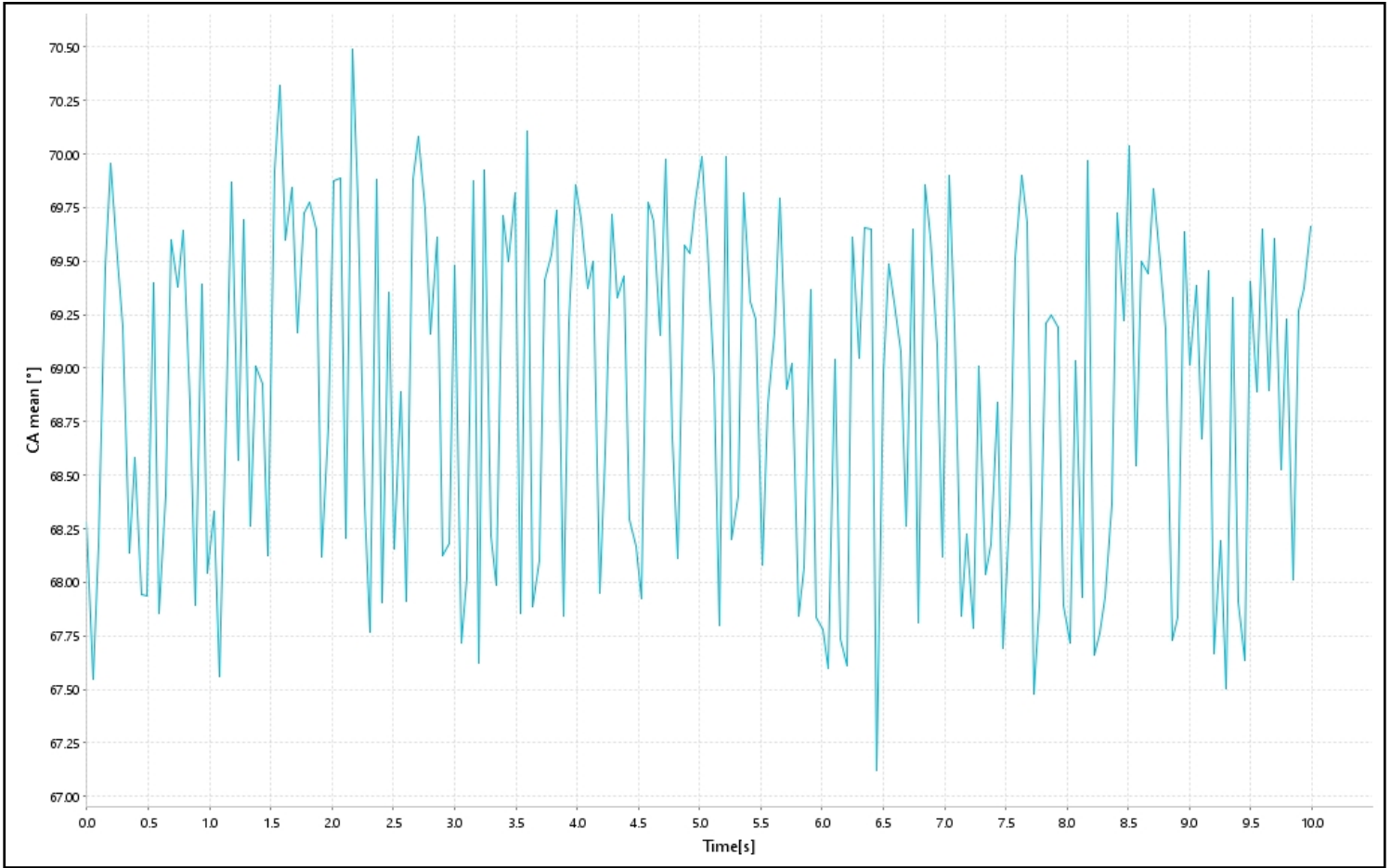
## Heavy phase

Name	Water 20 C
$\gamma_{\text{tot}}$ [mN/m]	72.800
$\gamma_{\text{d}}$ [mN/m]	21.800
$\gamma_{+}$ [mN/m]	25.500
$\gamma_{-}$ [mN/m]	25.500
$\rho$ [g/cm <sup>3</sup> ]	0.9980
$\eta$ [mPa.s]	1.002
Temperature [°C]	20.000
Molecular weight [g/mol]	18.010

## Light phase

Name	Air
$\gamma_{\text{tot}}$ [mN/m]	
$\gamma_{\text{d}}$ [mN/m]	
$\gamma_{+}$ [mN/m]	
$\gamma_{-}$ [mN/m]	
$\rho$ [g/cm <sup>3</sup> ]	0.0012
$\eta$ [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	68.46	68.11	68.28	0.21	1.14
0.05	67.59	67.50	67.55	0.20	1.13
0.10	68.50	67.83	68.17	0.21	1.14
0.15	70.07	68.86	69.47	0.21	1.14
0.20	70.71	69.20	69.96	0.22	1.15
0.25	70.29	68.75	69.52	0.21	1.14
0.30	69.86	68.54	69.20	0.21	1.14
0.34	68.37	67.91	68.14	0.20	1.14
0.39	68.91	68.26	68.58	0.21	1.14
0.44	68.30	67.59	67.95	0.20	1.14
0.49	68.30	67.57	67.94	0.20	1.14
0.54	70.10	68.69	69.40	0.21	1.14
0.59	68.15	67.56	67.85	0.20	1.14
0.64	69.05	67.76	68.40	0.20	1.14
0.69	70.42	68.79	69.60	0.21	1.14
0.74	70.21	68.55	69.38	0.21	1.14
0.79	70.47	68.81	69.64	0.21	1.14
0.84	69.15	68.53	68.84	0.21	1.14
0.89	68.23	67.55	67.89	0.20	1.13
0.93	69.99	68.79	69.39	0.22	1.14
0.98	68.30	67.79	68.05	0.21	1.14
1.03	68.70	67.95	68.33	0.21	1.14
1.08	67.73	67.39	67.56	0.20	1.13
1.13	69.30	68.30	68.80	0.21	1.14
1.18	70.57	69.17	69.87	0.22	1.15
1.23	69.16	67.98	68.57	0.21	1.14
1.28	70.40	68.98	69.69	0.21	1.14
1.33	68.69	67.83	68.26	0.20	1.14
1.38	69.49	68.53	69.01	0.21	1.14
1.43	69.31	68.54	68.93	0.21	1.14
1.48	68.43	67.82	68.12	0.21	1.14
1.53	70.59	69.24	69.92	0.22	1.15
1.57	71.04	69.60	70.32	0.22	1.15
1.62	70.35	68.84	69.60	0.21	1.14
1.67	70.42	69.27	69.85	0.22	1.15
1.72	69.98	68.35	69.17	0.21	1.14

1.77	70.54	68.91	69.72	0.22	1.14
1.82	70.40	69.15	69.77	0.22	1.15
1.87	70.42	68.88	69.65	0.22	1.14
1.92	68.44	67.79	68.12	0.21	1.14
1.97	69.09	68.37	68.73	0.21	1.14
2.02	70.60	69.14	69.87	0.22	1.15
2.07	70.45	69.32	69.89	0.22	1.15
2.12	68.50	67.90	68.20	0.20	1.14
2.16	71.15	69.83	70.49	0.22	1.15
2.21	70.47	69.08	69.77	0.22	1.15
2.26	68.71	68.04	68.37	0.21	1.14
2.31	68.08	67.45	67.77	0.20	1.13
2.36	70.69	69.07	69.88	0.22	1.15
2.41	68.29	67.53	67.91	0.20	1.14
2.46	69.94	68.76	69.35	0.21	1.14
2.51	68.57	67.74	68.15	0.20	1.14
2.56	69.31	68.47	68.89	0.21	1.14
2.61	68.18	67.64	67.91	0.20	1.14
2.66	70.46	69.30	69.88	0.22	1.15
2.71	70.72	69.44	70.08	0.22	1.15
2.76	70.38	69.11	69.74	0.22	1.15
2.80	69.75	68.58	69.16	0.21	1.14
2.85	70.29	68.92	69.61	0.21	1.14
2.90	68.50	67.75	68.12	0.20	1.14
2.95	68.57	67.79	68.18	0.20	1.14
3.00	70.26	68.70	69.48	0.21	1.14
3.05	68.10	67.33	67.71	0.20	1.13
3.10	68.55	67.48	68.01	0.20	1.14
3.15	70.58	69.18	69.88	0.22	1.15
3.20	67.93	67.32	67.63	0.20	1.13
3.25	70.54	69.31	69.92	0.22	1.15
3.30	68.44	68.00	68.22	0.21	1.14
3.35	68.20	67.77	67.98	0.21	1.14
3.40	70.20	69.22	69.71	0.22	1.15
3.44	70.08	68.92	69.50	0.22	1.14
3.49	70.37	69.26	69.82	0.22	1.15
3.54	68.20	67.51	67.85	0.20	1.13
3.59	70.85	69.37	70.11	0.22	1.15
3.64	68.31	67.46	67.89	0.20	1.14
3.69	68.57	67.63	68.10	0.20	1.14
3.74	70.18	68.64	69.41	0.21	1.14
3.79	70.39	68.67	69.53	0.21	1.14
3.84	70.41	69.07	69.74	0.22	1.15
3.89	68.09	67.60	67.84	0.20	1.13
3.94	69.71	68.71	69.21	0.22	1.14
3.99	70.42	69.28	69.85	0.22	1.15
4.03	70.47	68.93	69.70	0.22	1.14
4.08	70.15	68.60	69.37	0.21	1.14
4.13	70.04	68.96	69.50	0.21	1.14
4.18	68.37	67.53	67.95	0.20	1.14
4.23	69.15	68.05	68.60	0.21	1.14
4.28	70.38	69.06	69.72	0.22	1.15
4.33	69.86	68.79	69.33	0.21	1.14
4.38	70.08	68.77	69.43	0.21	1.14
4.43	68.64	67.94	68.29	0.21	1.14
4.48	68.61	67.73	68.17	0.20	1.14
4.53	68.26	67.58	67.92	0.20	1.14
4.58	70.43	69.12	69.77	0.22	1.15
4.63	70.19	69.18	69.68	0.22	1.15
4.67	69.57	68.73	69.15	0.22	1.14
4.72	70.59	69.36	69.97	0.22	1.15
4.77	69.27	68.08	68.68	0.21	1.14
4.82	68.45	67.76	68.11	0.20	1.14
4.87	70.28	68.87	69.57	0.21	1.14
4.92	70.39	68.68	69.54	0.21	1.14
4.97	70.61	68.94	69.77	0.21	1.14
5.02	70.70	69.27	69.99	0.22	1.15
5.07	70.18	69.01	69.59	0.22	1.14
5.12	69.50	68.40	68.95	0.21	1.14
5.17	68.10	67.49	67.80	0.20	1.13
5.22	70.54	69.44	69.99	0.22	1.15
5.26	68.42	67.97	68.20	0.21	1.14

5.31	68.77	68.04	68.40	0.21	1.14
5.36	70.37	69.26	69.82	0.22	1.15
5.41	69.93	68.69	69.31	0.22	1.14
5.46	70.04	68.42	69.23	0.21	1.14
5.51	68.33	67.83	68.08	0.20	1.14
5.56	69.38	68.28	68.83	0.21	1.14
5.61	69.79	68.54	69.16	0.21	1.14
5.66	70.34	69.24	69.79	0.22	1.15
5.71	69.55	68.25	68.90	0.21	1.14
5.76	69.67	68.37	69.02	0.21	1.14
5.81	68.13	67.56	67.84	0.20	1.14
5.86	68.36	67.77	68.07	0.20	1.14
5.90	70.11	68.62	69.36	0.21	1.14
5.95	68.20	67.47	67.84	0.20	1.14
6.00	68.17	67.38	67.78	0.20	1.13
6.05	68.02	67.17	67.60	0.20	1.13
6.10	69.82	68.26	69.04	0.21	1.14
6.15	68.13	67.34	67.73	0.20	1.13
6.20	68.07	67.15	67.61	0.20	1.13
6.25	70.22	69.00	69.61	0.21	1.15
6.30	69.62	68.48	69.05	0.21	1.14
6.35	70.50	68.81	69.65	0.21	1.14
6.40	70.41	68.89	69.65	0.21	1.14
6.45	67.41	66.83	67.12	0.20	1.13
6.50	69.54	68.40	68.97	0.21	1.14
6.54	70.20	68.78	69.49	0.21	1.14
6.59	69.82	68.79	69.31	0.21	1.14
6.64	69.94	68.22	69.08	0.21	1.14
6.69	68.57	67.96	68.27	0.21	1.14
6.74	70.23	69.07	69.65	0.22	1.15
6.79	68.12	67.50	67.81	0.20	1.13
6.84	70.52	69.20	69.86	0.22	1.15
6.89	70.33	68.89	69.61	0.22	1.14
6.94	69.62	68.60	69.11	0.21	1.14
6.99	68.44	67.80	68.12	0.20	1.14
7.04	70.49	69.31	69.90	0.22	1.15
7.09	69.98	68.41	69.20	0.21	1.14
7.13	68.24	67.44	67.84	0.20	1.13
7.18	68.55	67.90	68.23	0.20	1.14
7.23	68.13	67.44	67.79	0.20	1.14
7.28	69.58	68.44	69.01	0.21	1.14
7.33	68.39	67.67	68.03	0.20	1.14
7.38	68.55	67.80	68.17	0.20	1.14
7.43	69.53	68.14	68.84	0.21	1.14
7.48	68.16	67.22	67.69	0.20	1.13
7.53	68.71	67.94	68.32	0.21	1.14
7.58	70.09	68.94	69.51	0.22	1.14
7.63	70.43	69.37	69.90	0.22	1.15
7.68	70.22	69.13	69.68	0.22	1.15
7.73	67.74	67.22	67.48	0.20	1.13
7.77	68.23	67.54	67.88	0.20	1.14
7.82	69.91	68.51	69.21	0.21	1.14
7.87	69.82	68.67	69.24	0.21	1.14
7.92	69.94	68.43	69.19	0.21	1.14
7.97	68.23	67.55	67.89	0.20	1.14
8.02	68.09	67.34	67.72	0.20	1.13
8.07	69.63	68.44	69.04	0.21	1.14
8.12	68.43	67.42	67.93	0.20	1.14
8.17	70.70	69.24	69.97	0.22	1.15
8.22	67.90	67.41	67.66	0.20	1.13
8.27	68.18	67.34	67.76	0.20	1.13
8.32	68.27	67.59	67.93	0.20	1.14
8.36	68.86	67.86	68.36	0.21	1.14
8.41	70.41	69.04	69.73	0.21	1.15
8.46	69.85	68.59	69.22	0.21	1.14
8.51	70.71	69.36	70.04	0.22	1.15
8.56	68.83	68.25	68.54	0.21	1.14
8.61	69.97	69.02	69.49	0.22	1.14
8.66	69.91	68.97	69.44	0.22	1.14
8.71	70.53	69.15	69.84	0.22	1.15
8.76	70.17	68.81	69.49	0.22	1.14
8.81	69.71	68.66	69.19	0.22	1.14

8.86	68.01	67.45	67.73	0.20	1.13
8.91	68.05	67.63	67.84	0.20	1.14
8.96	70.36	68.91	69.63	0.22	1.14
9.00	69.53	68.50	69.02	0.21	1.14
9.05	69.92	68.85	69.38	0.22	1.14
9.10	69.18	68.15	68.67	0.21	1.14
9.15	69.96	68.95	69.46	0.22	1.14
9.20	67.93	67.40	67.67	0.20	1.13
9.25	68.48	67.90	68.19	0.21	1.14
9.30	67.79	67.22	67.50	0.20	1.13
9.35	70.05	68.60	69.33	0.21	1.14
9.40	68.10	67.73	67.91	0.20	1.14
9.45	68.05	67.22	67.63	0.20	1.13
9.50	70.01	68.80	69.40	0.21	1.14
9.55	69.53	68.25	68.89	0.21	1.14
9.59	70.27	69.03	69.65	0.22	1.15
9.64	69.41	68.39	68.90	0.21	1.14
9.69	70.28	68.92	69.60	0.22	1.14
9.74	68.99	68.07	68.53	0.21	1.14
9.79	70.05	68.40	69.23	0.21	1.14
9.84	68.23	67.79	68.01	0.21	1.14
9.89	69.69	68.84	69.27	0.22	1.14
9.94	69.79	68.97	69.38	0.22	1.14
9.99	70.14	69.18	69.66	0.22	1.15