

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:35:58 BST 2023

## Experiment info

Name	csg524 Sample 5 Measurement 1
Type	Contact angle
Date	16-May-2023 14:27

## Solid

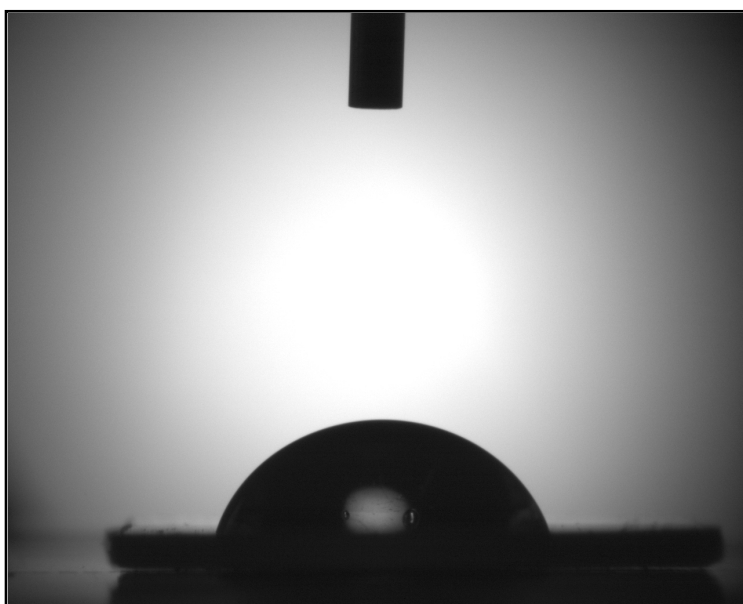
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

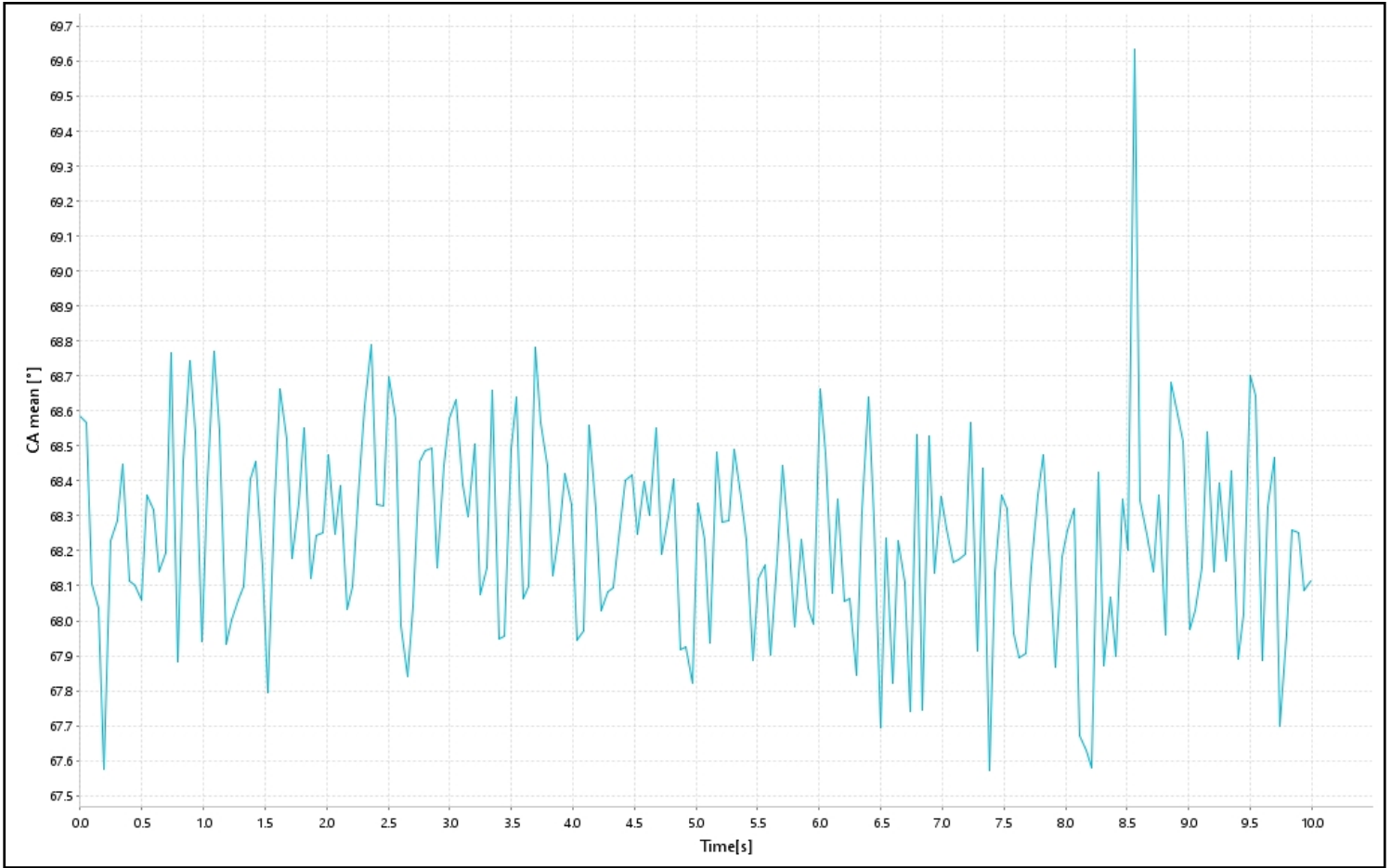
## Heavy phase

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	68.88	68.29	68.58	0.25	1.22
0.05	69.14	67.98	68.56	0.24	1.22
0.10	68.73	67.48	68.10	0.24	1.21
0.15	68.56	67.51	68.04	0.24	1.21
0.20	67.99	67.17	67.58	0.24	1.21
0.25	68.50	67.95	68.23	0.25	1.22
0.30	68.67	67.90	68.29	0.25	1.22
0.34	68.89	68.01	68.45	0.25	1.22
0.39	68.58	67.65	68.11	0.24	1.21
0.44	68.65	67.55	68.10	0.25	1.21
0.49	68.50	67.62	68.06	0.24	1.21
0.54	68.95	67.77	68.36	0.25	1.22
0.59	68.99	67.65	68.32	0.24	1.22
0.64	68.49	67.79	68.14	0.25	1.22
0.69	68.52	67.86	68.19	0.25	1.22
0.74	69.10	68.43	68.77	0.25	1.22
0.79	68.34	67.42	67.88	0.24	1.21
0.84	69.02	67.89	68.45	0.25	1.22
0.89	69.20	68.29	68.74	0.25	1.22
0.93	68.98	68.10	68.54	0.25	1.22
0.98	68.41	67.47	67.94	0.24	1.21
1.03	68.79	68.00	68.39	0.25	1.22
1.08	69.16	68.38	68.77	0.25	1.22
1.13	68.95	68.14	68.54	0.25	1.22
1.18	68.45	67.42	67.93	0.24	1.21
1.23	68.65	67.36	68.00	0.24	1.21
1.28	68.58	67.54	68.06	0.24	1.21
1.33	68.42	67.78	68.10	0.25	1.21
1.38	68.84	67.97	68.41	0.25	1.22
1.43	68.78	68.13	68.45	0.25	1.22
1.48	68.51	67.80	68.16	0.25	1.22
1.53	68.27	67.32	67.80	0.24	1.21
1.57	68.90	67.78	68.34	0.24	1.22
1.62	69.15	68.18	68.66	0.25	1.22
1.67	69.01	68.03	68.52	0.25	1.22
1.72	68.71	67.65	68.18	0.25	1.22

1.77	68.77	67.90	68.34	0.25	1.22
1.82	69.01	68.09	68.55	0.25	1.22
1.87	68.59	67.65	68.12	0.24	1.21
1.92	68.80	67.69	68.25	0.24	1.22
1.97	68.67	67.84	68.25	0.25	1.22
2.02	68.74	68.21	68.48	0.25	1.22
2.07	68.50	68.00	68.25	0.25	1.22
2.12	68.85	67.92	68.39	0.25	1.22
2.16	68.44	67.63	68.03	0.25	1.22
2.21	68.53	67.66	68.10	0.24	1.21
2.26	68.73	68.07	68.40	0.25	1.22
2.31	69.02	68.20	68.61	0.25	1.22
2.36	69.16	68.42	68.79	0.25	1.22
2.41	68.79	67.87	68.33	0.24	1.22
2.46	68.69	67.97	68.33	0.25	1.22
2.51	69.07	68.32	68.70	0.25	1.22
2.56	68.92	68.24	68.58	0.25	1.22
2.61	68.32	67.65	67.99	0.25	1.21
2.66	68.12	67.56	67.84	0.25	1.21
2.71	68.55	67.53	68.04	0.24	1.21
2.76	69.03	67.87	68.45	0.24	1.22
2.80	69.03	67.94	68.49	0.24	1.22
2.85	68.89	68.10	68.49	0.25	1.22
2.90	68.54	67.76	68.15	0.25	1.22
2.95	68.74	68.14	68.44	0.25	1.22
3.00	69.17	67.98	68.58	0.25	1.22
3.05	69.06	68.20	68.63	0.25	1.22
3.10	68.81	67.97	68.39	0.25	1.22
3.15	68.65	67.95	68.30	0.25	1.22
3.20	68.94	68.06	68.50	0.25	1.22
3.25	68.51	67.64	68.07	0.25	1.21
3.30	68.44	67.86	68.15	0.25	1.21
3.35	69.04	68.28	68.66	0.25	1.22
3.40	68.18	67.71	67.95	0.25	1.21
3.44	68.32	67.60	67.96	0.24	1.21
3.49	68.97	68.01	68.49	0.25	1.22
3.54	69.33	67.95	68.64	0.24	1.22
3.59	68.58	67.55	68.06	0.24	1.21
3.64	68.34	67.86	68.10	0.25	1.22
3.69	68.84	68.72	68.78	0.27	1.22
3.74	68.64	68.50	68.57	0.26	1.22
3.79	68.86	68.02	68.44	0.25	1.22
3.84	68.81	67.45	68.13	0.24	1.22
3.89	68.97	67.55	68.26	0.23	1.22
3.94	68.96	67.88	68.42	0.24	1.22
3.99	68.59	68.07	68.33	0.25	1.22
4.03	68.22	67.67	67.94	0.25	1.21
4.08	68.48	67.46	67.97	0.24	1.21
4.13	69.19	67.93	68.56	0.24	1.22
4.18	68.74	67.90	68.32	0.24	1.22
4.23	68.40	67.66	68.03	0.25	1.21
4.28	68.43	67.73	68.08	0.25	1.22
4.33	68.54	67.65	68.10	0.24	1.21
4.38	68.83	67.70	68.27	0.24	1.22
4.43	68.86	67.94	68.40	0.24	1.22
4.48	68.78	68.05	68.41	0.25	1.22
4.53	68.58	67.91	68.25	0.25	1.22
4.58	68.75	68.05	68.40	0.25	1.22
4.63	68.58	68.02	68.30	0.25	1.22
4.67	68.94	68.16	68.55	0.25	1.22
4.72	68.61	67.77	68.19	0.25	1.22
4.77	69.00	67.59	68.30	0.24	1.22
4.82	69.47	67.34	68.41	0.23	1.22
4.87	69.31	66.52	67.92	0.21	1.21
4.92	68.93	66.93	67.93	0.22	1.21
4.97	68.43	67.21	67.82	0.24	1.21
5.02	68.53	68.14	68.34	0.25	1.22
5.07	68.63	67.84	68.23	0.25	1.22
5.12	68.51	67.36	67.94	0.24	1.21
5.17	68.93	68.03	68.48	0.25	1.22
5.22	68.57	67.99	68.28	0.25	1.22
5.26	68.35	68.22	68.28	0.26	1.22

5.31	68.84	68.14	68.49	0.26	1.22
5.36	68.90	67.81	68.36	0.25	1.22
5.41	68.54	67.93	68.23	0.25	1.22
5.46	68.02	67.76	67.89	0.25	1.21
5.51	68.37	67.87	68.12	0.25	1.22
5.56	68.56	67.76	68.16	0.25	1.22
5.61	68.35	67.45	67.90	0.24	1.21
5.66	68.63	67.71	68.17	0.24	1.22
5.71	68.91	67.97	68.44	0.24	1.22
5.76	68.70	67.73	68.21	0.24	1.22
5.81	68.38	67.58	67.98	0.24	1.21
5.86	68.60	67.86	68.23	0.25	1.22
5.90	68.41	67.66	68.04	0.25	1.22
5.95	68.51	67.47	67.99	0.24	1.21
6.00	69.10	68.23	68.66	0.25	1.22
6.05	68.93	68.03	68.48	0.25	1.22
6.10	68.54	67.62	68.08	0.24	1.22
6.15	68.85	67.84	68.35	0.25	1.22
6.20	68.85	67.26	68.05	0.23	1.22
6.25	68.31	67.82	68.06	0.25	1.22
6.30	68.18	67.51	67.84	0.25	1.21
6.35	67.17	69.45	68.31	0.30	1.22
6.40	67.47	69.81	68.64	0.31	1.22
6.45	67.75	68.83	68.29	0.28	1.22
6.49	68.59	66.80	67.70	0.22	1.21
6.54	69.41	67.07	68.24	0.22	1.22
6.59	68.06	67.58	67.82	0.25	1.21
6.64	67.65	68.81	68.23	0.28	1.22
6.69	67.82	68.39	68.11	0.27	1.22
6.74	67.76	67.72	67.74	0.26	1.21
6.79	68.86	68.21	68.53	0.25	1.22
6.84	68.18	67.30	67.74	0.24	1.21
6.89	69.01	68.04	68.53	0.25	1.22
6.94	68.42	67.85	68.13	0.25	1.22
6.99	68.66	68.05	68.36	0.25	1.22
7.04	68.54	67.98	68.26	0.25	1.22
7.09	68.43	67.91	68.17	0.25	1.22
7.13	68.62	67.73	68.18	0.25	1.22
7.18	68.70	67.68	68.19	0.24	1.22
7.23	69.05	68.09	68.57	0.25	1.22
7.28	68.39	67.43	67.91	0.24	1.21
7.33	68.80	68.06	68.43	0.25	1.22
7.38	67.98	67.16	67.57	0.24	1.21
7.43	68.61	67.67	68.14	0.24	1.22
7.48	68.82	67.89	68.36	0.25	1.22
7.53	68.62	68.02	68.32	0.25	1.22
7.58	68.34	67.58	67.96	0.25	1.21
7.63	68.23	67.56	67.89	0.25	1.21
7.68	68.07	67.74	67.90	0.25	1.21
7.73	68.49	67.81	68.15	0.25	1.22
7.77	68.72	68.00	68.36	0.25	1.22
7.82	69.00	67.96	68.48	0.25	1.22
7.87	68.67	67.63	68.15	0.24	1.22
7.92	68.36	67.38	67.87	0.24	1.21
7.97	68.72	67.65	68.18	0.24	1.22
8.02	68.76	67.76	68.26	0.25	1.22
8.07	68.69	67.95	68.32	0.25	1.22
8.12	68.00	67.34	67.67	0.24	1.21
8.17	67.93	67.33	67.63	0.25	1.21
8.22	67.83	67.33	67.58	0.25	1.21
8.27	68.65	68.21	68.43	0.25	1.22
8.32	68.08	67.66	67.87	0.25	1.21
8.36	68.38	67.75	68.07	0.25	1.22
8.41	68.36	67.44	67.90	0.24	1.21
8.46	68.83	67.86	68.35	0.25	1.22
8.51	68.70	67.70	68.20	0.24	1.22
8.56	70.51	68.76	69.63	0.26	1.23
8.61	68.76	67.93	68.34	0.25	1.22
8.66	68.69	67.81	68.25	0.25	1.22
8.71	68.42	67.86	68.14	0.25	1.22
8.76	68.69	68.03	68.36	0.25	1.22
8.81	68.28	67.63	67.96	0.24	1.21

8.86	69.15	68.21	68.68	0.25	1.22
8.91	69.04	68.13	68.59	0.25	1.22
8.96	68.88	68.15	68.51	0.25	1.22
9.00	68.43	67.52	67.97	0.25	1.21
9.05	68.30	67.76	68.03	0.25	1.22
9.10	68.58	67.72	68.15	0.25	1.22
9.15	69.01	68.07	68.54	0.25	1.22
9.20	68.50	67.79	68.14	0.25	1.22
9.25	68.81	67.97	68.39	0.25	1.22
9.30	68.46	67.88	68.17	0.25	1.22
9.35	68.78	68.08	68.43	0.25	1.22
9.40	68.26	67.52	67.89	0.25	1.21
9.45	68.41	67.62	68.02	0.24	1.22
9.50	69.26	68.14	68.70	0.25	1.22
9.55	69.06	68.23	68.64	0.25	1.22
9.59	68.17	67.60	67.89	0.25	1.21
9.64	68.77	67.87	68.32	0.25	1.22
9.69	68.90	68.03	68.47	0.25	1.22
9.74	68.07	67.33	67.70	0.24	1.21
9.79	68.36	67.56	67.96	0.25	1.21
9.84	68.60	67.92	68.26	0.25	1.22
9.89	68.58	67.92	68.25	0.25	1.22
9.94	68.43	67.74	68.09	0.25	1.22
9.99	68.46	67.77	68.11	0.25	1.22