

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:36:03 BST 2023

## Experiment info

Name	csg524 Sample 5 Measurement 2
Type	Contact angle
Date	16-May-2023 14:28

## Solid

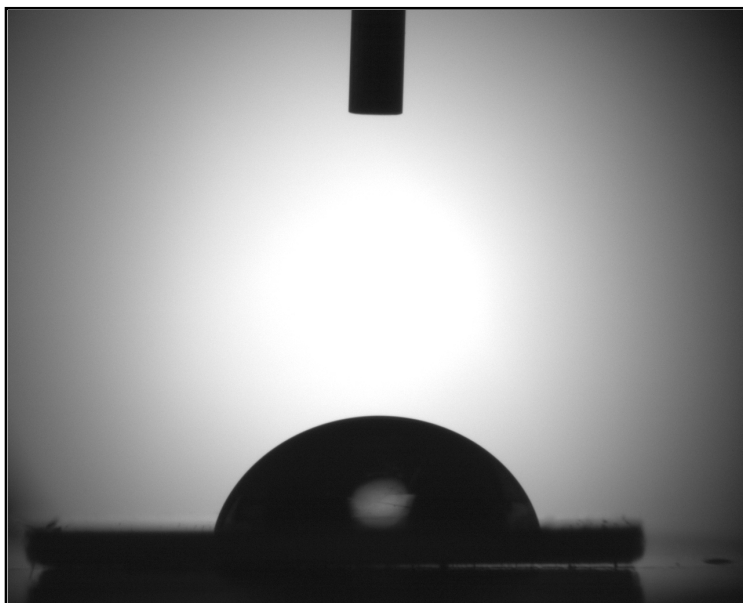
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

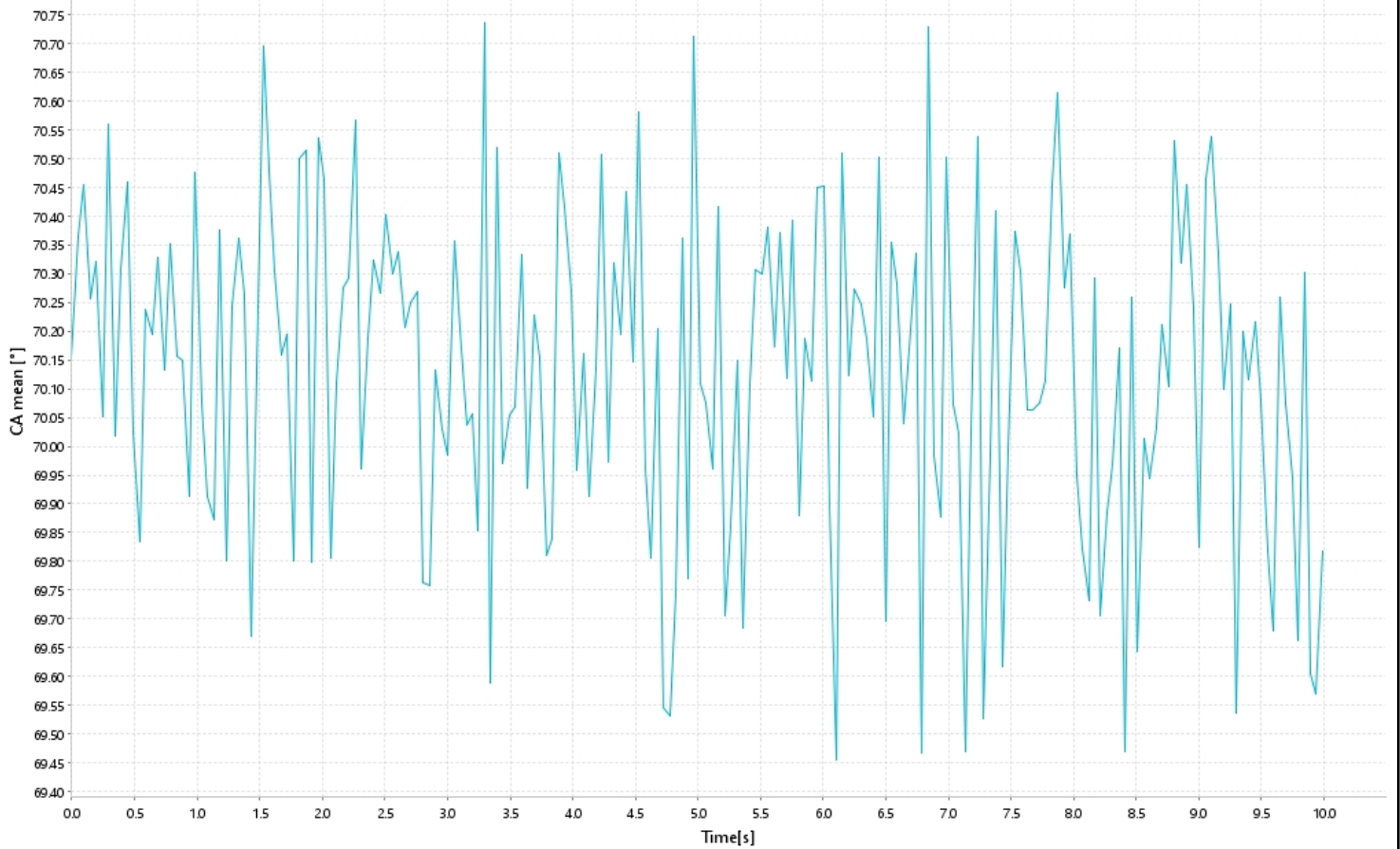
## Heavy phase

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	69.37	70.94	70.15	0.28	1.19
0.05	69.56	71.17	70.36	0.28	1.19
0.10	69.64	71.27	70.45	0.28	1.19
0.15	69.38	71.13	70.26	0.28	1.19
0.20	69.31	71.34	70.32	0.28	1.19
0.25	69.03	71.07	70.05	0.28	1.19
0.30	69.78	71.33	70.56	0.28	1.19
0.34	69.25	70.78	70.02	0.27	1.19
0.39	69.67	70.94	70.31	0.27	1.19
0.44	69.77	71.15	70.46	0.27	1.19
0.49	69.44	70.61	70.02	0.27	1.19
0.54	69.35	70.31	69.83	0.27	1.19
0.59	69.77	70.71	70.24	0.27	1.19
0.64	69.51	70.88	70.20	0.27	1.19
0.69	69.42	71.24	70.33	0.28	1.19
0.74	69.32	70.95	70.13	0.28	1.19
0.79	69.64	71.06	70.35	0.28	1.19
0.84	69.28	71.03	70.16	0.27	1.19
0.89	69.36	70.94	70.15	0.27	1.19
0.93	69.40	70.43	69.91	0.27	1.19
0.98	69.96	70.99	70.48	0.27	1.19
1.03	69.53	70.62	70.08	0.27	1.19
1.08	69.06	70.76	69.91	0.27	1.19
1.13	69.25	70.50	69.87	0.27	1.19
1.18	69.65	71.10	70.38	0.28	1.19
1.23	69.16	70.44	69.80	0.27	1.19
1.28	69.25	71.23	70.24	0.28	1.19
1.33	69.49	71.23	70.36	0.28	1.19
1.38	69.41	71.11	70.26	0.28	1.19
1.43	68.93	70.41	69.67	0.27	1.19
1.48	69.28	70.97	70.13	0.28	1.19
1.53	69.90	71.49	70.69	0.28	1.19
1.57	69.74	71.22	70.48	0.27	1.19
1.62	69.62	70.99	70.30	0.27	1.19
1.67	69.82	70.50	70.16	0.27	1.19
1.72	69.65	70.74	70.20	0.27	1.19

1.77	69.26	70.35	69.80	0.26	1.19
1.82	69.76	71.24	70.50	0.27	1.19
1.87	69.87	71.16	70.51	0.28	1.19
1.92	68.90	70.69	69.80	0.27	1.19
1.97	69.67	71.41	70.54	0.28	1.19
2.02	69.67	71.26	70.46	0.28	1.19
2.07	69.16	70.46	69.81	0.27	1.19
2.12	69.08	71.14	70.11	0.28	1.19
2.16	69.37	71.18	70.28	0.28	1.19
2.21	69.67	70.92	70.29	0.27	1.19
2.26	69.89	71.25	70.57	0.27	1.19
2.31	69.41	70.52	69.96	0.27	1.19
2.36	69.43	70.95	70.19	0.28	1.19
2.41	69.38	71.26	70.32	0.28	1.19
2.46	69.44	71.10	70.27	0.28	1.19
2.51	69.79	71.02	70.40	0.27	1.19
2.56	69.74	70.85	70.30	0.27	1.19
2.61	69.70	70.97	70.34	0.27	1.19
2.66	69.44	70.97	70.21	0.27	1.19
2.71	69.54	70.96	70.25	0.27	1.19
2.76	69.68	70.86	70.27	0.27	1.19
2.80	69.05	70.48	69.76	0.27	1.19
2.85	69.12	70.39	69.76	0.27	1.19
2.90	69.41	70.86	70.13	0.27	1.19
2.95	69.38	70.68	70.03	0.27	1.19
3.00	69.40	70.56	69.98	0.27	1.19
3.05	69.68	71.03	70.36	0.28	1.19
3.10	69.39	71.02	70.20	0.27	1.19
3.15	69.10	70.98	70.04	0.27	1.19
3.20	69.23	70.88	70.06	0.27	1.19
3.25	69.00	70.70	69.85	0.27	1.19
3.30	69.85	71.62	70.74	0.28	1.19
3.35	68.64	70.54	69.59	0.27	1.19
3.40	69.63	71.41	70.52	0.28	1.19
3.44	69.16	70.78	69.97	0.27	1.19
3.49	69.36	70.75	70.05	0.27	1.19
3.54	69.19	70.95	70.07	0.27	1.19
3.59	69.62	71.04	70.33	0.27	1.19
3.64	69.30	70.55	69.93	0.27	1.19
3.69	69.36	71.10	70.23	0.27	1.19
3.74	69.21	71.10	70.15	0.28	1.19
3.79	68.94	70.68	69.81	0.27	1.19
3.84	69.06	70.61	69.84	0.27	1.19
3.89	69.54	71.47	70.51	0.28	1.19
3.94	69.50	71.33	70.42	0.28	1.19
3.99	69.38	71.16	70.27	0.28	1.19
4.03	69.24	70.68	69.96	0.27	1.19
4.08	69.41	70.91	70.16	0.27	1.19
4.13	69.31	70.52	69.91	0.27	1.19
4.18	69.33	70.94	70.13	0.27	1.19
4.23	69.62	71.39	70.51	0.28	1.19
4.28	69.16	70.78	69.97	0.27	1.19
4.33	69.45	71.19	70.32	0.28	1.19
4.38	69.40	70.98	70.19	0.28	1.19
4.43	69.54	71.34	70.44	0.28	1.19
4.48	69.30	70.99	70.15	0.28	1.19
4.53	69.49	71.68	70.58	0.28	1.19
4.58	68.89	71.03	69.96	0.28	1.19
4.63	68.76	70.85	69.81	0.28	1.19
4.67	69.15	71.26	70.20	0.28	1.19
4.72	68.59	70.50	69.54	0.27	1.19
4.77	68.66	70.40	69.53	0.27	1.19
4.82	69.00	70.48	69.74	0.27	1.19
4.87	69.50	71.22	70.36	0.28	1.19
4.92	69.07	70.47	69.77	0.27	1.19
4.97	69.73	71.70	70.71	0.28	1.19
5.02	69.11	71.10	70.11	0.28	1.19
5.07	69.13	71.03	70.08	0.28	1.19
5.12	69.12	70.80	69.96	0.27	1.19
5.17	69.81	71.02	70.42	0.28	1.19
5.22	69.05	70.36	69.70	0.27	1.19
5.26	69.20	70.52	69.86	0.27	1.19

5.31	69.34	70.96	70.15	0.28	1.19
5.36	68.90	70.47	69.68	0.27	1.19
5.41	69.40	70.82	70.11	0.27	1.19
5.46	69.49	71.13	70.31	0.28	1.19
5.51	69.44	71.16	70.30	0.28	1.19
5.56	69.28	71.48	70.38	0.28	1.19
5.61	69.14	71.20	70.17	0.28	1.19
5.66	69.35	71.39	70.37	0.28	1.19
5.71	69.42	70.82	70.12	0.27	1.19
5.76	69.73	71.06	70.39	0.27	1.19
5.81	69.04	70.72	69.88	0.27	1.19
5.86	69.49	70.89	70.19	0.27	1.19
5.90	69.40	70.83	70.11	0.27	1.19
5.95	69.74	71.16	70.45	0.28	1.19
6.00	69.77	71.14	70.45	0.28	1.19
6.05	69.12	70.68	69.90	0.27	1.19
6.10	68.69	70.21	69.45	0.27	1.19
6.15	69.80	71.22	70.51	0.28	1.19
6.20	69.16	71.09	70.12	0.28	1.19
6.25	69.29	71.25	70.27	0.28	1.19
6.30	69.25	71.25	70.25	0.28	1.19
6.35	69.32	71.05	70.19	0.28	1.19
6.40	69.17	70.93	70.05	0.28	1.19
6.45	69.77	71.23	70.50	0.28	1.19
6.50	69.04	70.35	69.70	0.27	1.19
6.54	69.69	71.02	70.36	0.28	1.19
6.59	69.52	71.05	70.28	0.28	1.19
6.64	69.15	70.94	70.04	0.27	1.19
6.69	69.32	71.02	70.17	0.28	1.19
6.74	69.53	71.14	70.34	0.28	1.19
6.79	68.63	70.30	69.47	0.27	1.19
6.84	69.89	71.57	70.73	0.28	1.19
6.89	69.12	70.85	69.98	0.27	1.19
6.94	69.01	70.74	69.88	0.27	1.19
6.99	69.72	71.28	70.50	0.28	1.19
7.04	69.34	70.81	70.07	0.27	1.19
7.09	69.25	70.80	70.02	0.27	1.19
7.13	68.83	70.11	69.47	0.26	1.19
7.18	69.49	70.55	70.02	0.27	1.19
7.23	70.01	71.06	70.54	0.27	1.19
7.28	68.89	70.16	69.53	0.27	1.19
7.33	69.36	70.61	69.98	0.27	1.19
7.38	69.55	71.27	70.41	0.28	1.19
7.43	68.70	70.53	69.62	0.27	1.19
7.48	69.28	70.70	69.99	0.28	1.19
7.53	69.39	71.36	70.37	0.28	1.19
7.58	69.54	71.07	70.30	0.28	1.19
7.63	69.38	70.75	70.06	0.27	1.19
7.68	69.38	70.75	70.06	0.27	1.19
7.73	69.30	70.85	70.07	0.27	1.19
7.77	69.40	70.83	70.11	0.27	1.19
7.82	69.70	71.21	70.45	0.28	1.19
7.87	69.85	71.38	70.62	0.28	1.19
7.92	69.41	71.15	70.28	0.28	1.19
7.97	69.54	71.20	70.37	0.28	1.19
8.02	69.19	70.71	69.95	0.27	1.19
8.07	68.94	70.71	69.82	0.27	1.19
8.12	68.96	70.50	69.73	0.27	1.19
8.17	69.36	71.22	70.29	0.28	1.19
8.22	68.94	70.47	69.71	0.27	1.19
8.27	69.13	70.64	69.88	0.27	1.19
8.32	69.21	70.73	69.97	0.27	1.19
8.36	69.22	71.12	70.17	0.27	1.19
8.41	68.73	70.21	69.47	0.27	1.19
8.46	69.50	71.02	70.26	0.28	1.19
8.51	68.89	70.40	69.64	0.27	1.19
8.56	69.25	70.78	70.01	0.27	1.19
8.61	69.22	70.68	69.95	0.27	1.19
8.66	69.18	70.89	70.03	0.27	1.19
8.71	69.29	71.13	70.21	0.27	1.19
8.76	69.15	71.06	70.10	0.27	1.19
8.81	69.75	71.32	70.53	0.28	1.19

8.86	69.56	71.07	70.32	0.28	1.19
8.91	69.65	71.26	70.45	0.28	1.19
8.96	69.62	70.86	70.24	0.28	1.19
9.00	68.95	70.70	69.82	0.27	1.19
9.05	69.71	71.21	70.46	0.28	1.19
9.10	69.82	71.26	70.54	0.28	1.19
9.15	69.59	71.08	70.34	0.28	1.19
9.20	69.37	70.82	70.10	0.27	1.19
9.25	69.48	71.02	70.25	0.28	1.19
9.30	68.90	70.17	69.54	0.27	1.19
9.35	69.42	70.98	70.20	0.27	1.19
9.40	69.31	70.91	70.11	0.27	1.19
9.45	69.59	70.84	70.22	0.27	1.19
9.50	69.38	70.78	70.08	0.27	1.19
9.55	69.07	70.57	69.82	0.27	1.19
9.59	69.04	70.32	69.68	0.27	1.19
9.64	69.60	70.92	70.26	0.28	1.19
9.69	69.27	70.88	70.07	0.28	1.19
9.74	69.06	70.83	69.95	0.27	1.19
9.79	68.81	70.52	69.66	0.27	1.19
9.84	69.52	71.09	70.30	0.28	1.19
9.89	68.84	70.38	69.61	0.27	1.19
9.94	68.95	70.19	69.57	0.27	1.19
9.99	69.15	70.48	69.82	0.27	1.19