

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:12 BST 2023

## Experiment info

Name	csg524 Treated Sample 2 Measurement 3
Type	Contact angle
Date	18-May-2023 14:39

## Solid

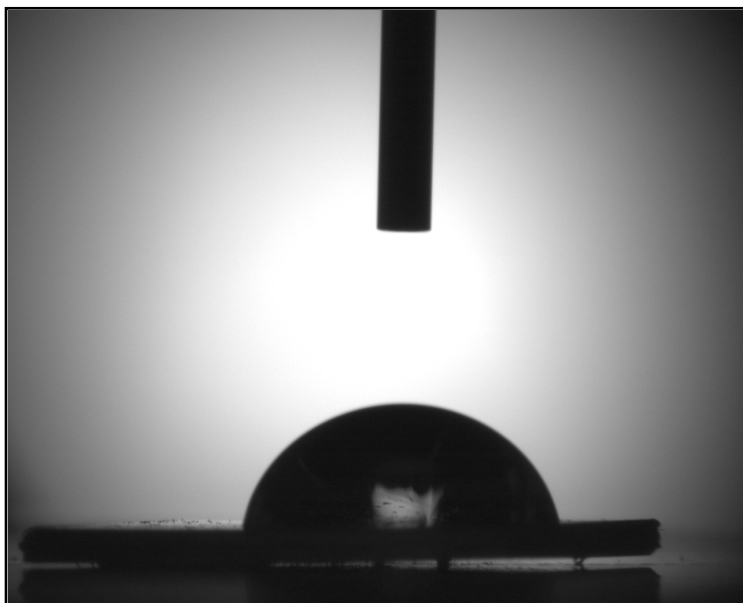
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

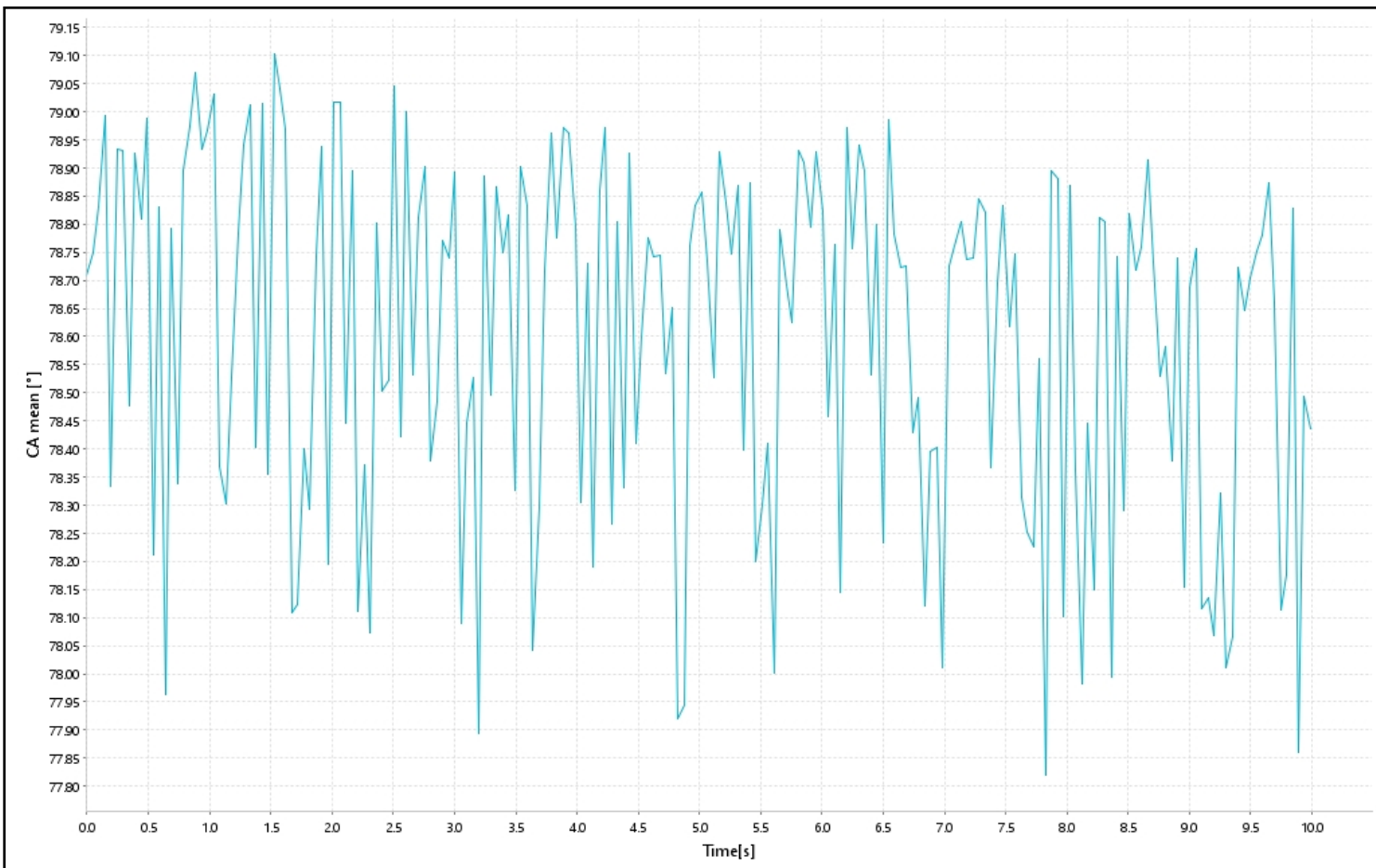
## Heavy phase

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	79.13	78.29	78.71	0.29	1.17
0.05	79.16	78.34	78.75	0.29	1.17
0.10	78.95	78.71	78.83	0.30	1.17
0.15	79.05	78.94	78.99	0.30	1.17
0.20	78.03	78.64	78.33	0.30	1.17
0.25	78.73	79.14	78.93	0.31	1.17
0.30	78.71	79.15	78.93	0.31	1.17
0.34	78.10	78.86	78.48	0.30	1.17
0.39	78.76	79.10	78.93	0.31	1.17
0.44	78.59	79.02	78.81	0.31	1.17
0.49	78.83	79.15	78.99	0.31	1.17
0.54	77.94	78.48	78.21	0.30	1.17
0.59	78.70	78.96	78.83	0.30	1.17
0.64	77.93	78.00	77.96	0.29	1.17
0.69	79.82	77.77	78.79	0.28	1.17
0.74	78.93	77.75	78.34	0.28	1.17
0.79	79.13	78.66	78.90	0.30	1.17
0.84	78.91	79.04	78.97	0.30	1.17
0.89	78.49	79.65	79.07	0.32	1.17
0.93	78.16	79.71	78.93	0.32	1.17
0.98	78.13	79.81	78.97	0.32	1.17
1.03	78.08	79.98	79.03	0.32	1.17
1.08	77.43	79.31	78.37	0.32	1.17
1.13	77.63	78.97	78.30	0.31	1.17
1.18	77.73	79.32	78.53	0.32	1.17
1.23	78.02	79.55	78.78	0.32	1.17
1.28	78.24	79.64	78.94	0.32	1.17
1.33	78.22	79.81	79.01	0.32	1.17
1.38	77.53	79.28	78.40	0.31	1.17
1.43	78.35	79.68	79.01	0.32	1.17
1.48	77.53	79.18	78.36	0.31	1.17
1.53	78.80	79.40	79.10	0.31	1.17
1.57	78.92	79.17	79.04	0.30	1.17
1.62	79.21	78.73	78.97	0.30	1.17
1.67	78.25	77.97	78.11	0.29	1.17
1.72	78.71	77.53	78.12	0.28	1.17

1.77	79.25	77.55	78.40	0.28	1.17
1.82	79.19	77.40	78.29	0.27	1.17
1.87	79.62	77.87	78.74	0.28	1.17
1.92	79.63	78.25	78.94	0.29	1.17
1.97	78.24	78.15	78.20	0.29	1.17
2.02	78.83	79.20	79.02	0.31	1.17
2.07	78.78	79.25	79.02	0.31	1.17
2.12	78.01	78.88	78.44	0.30	1.17
2.16	78.82	78.97	78.90	0.30	1.17
2.21	78.13	78.09	78.11	0.29	1.17
2.26	78.46	78.28	78.37	0.29	1.17
2.31	78.05	78.10	78.07	0.29	1.17
2.36	78.95	78.66	78.80	0.30	1.17
2.41	78.54	78.46	78.50	0.29	1.17
2.46	78.50	78.55	78.52	0.30	1.17
2.51	78.68	79.41	79.05	0.31	1.17
2.56	77.83	79.01	78.42	0.31	1.17
2.61	78.49	79.51	79.00	0.31	1.17
2.66	77.83	79.23	78.53	0.31	1.17
2.71	78.34	79.28	78.81	0.31	1.17
2.76	78.36	79.45	78.90	0.31	1.17
2.80	77.86	78.89	78.38	0.31	1.17
2.85	77.97	79.00	78.48	0.31	1.17
2.90	78.58	78.96	78.77	0.30	1.17
2.95	78.79	78.69	78.74	0.30	1.17
3.00	79.36	78.43	78.89	0.29	1.17
3.05	78.46	77.72	78.09	0.28	1.17
3.10	78.81	78.08	78.44	0.29	1.17
3.15	78.71	78.34	78.53	0.29	1.17
3.20	77.67	78.12	77.89	0.29	1.17
3.25	78.62	79.15	78.89	0.31	1.17
3.30	77.92	79.07	78.50	0.31	1.17
3.35	78.38	79.35	78.87	0.31	1.17
3.40	78.11	79.39	78.75	0.31	1.17
3.44	78.56	79.08	78.82	0.31	1.17
3.49	78.55	78.11	78.33	0.29	1.17
3.54	79.45	78.36	78.90	0.29	1.17
3.59	79.40	78.27	78.83	0.29	1.17
3.64	78.54	77.55	78.04	0.28	1.17
3.69	78.52	78.07	78.29	0.29	1.17
3.74	78.78	78.65	78.72	0.30	1.17
3.79	78.98	78.95	78.96	0.30	1.17
3.84	78.53	79.03	78.78	0.31	1.17
3.89	78.64	79.31	78.97	0.31	1.17
3.94	78.67	79.25	78.96	0.31	1.17
3.99	78.55	79.04	78.80	0.31	1.17
4.03	77.76	78.85	78.30	0.31	1.17
4.08	78.46	79.01	78.73	0.31	1.17
4.13	77.63	78.75	78.19	0.30	1.17
4.18	78.23	79.49	78.86	0.32	1.17
4.23	78.58	79.37	78.97	0.31	1.17
4.28	77.91	78.63	78.27	0.30	1.17
4.33	78.95	78.66	78.80	0.30	1.17
4.38	78.70	77.96	78.33	0.29	1.17
4.43	79.50	78.35	78.93	0.29	1.17
4.48	79.04	77.78	78.41	0.28	1.17
4.53	79.35	77.84	78.60	0.28	1.17
4.58	79.23	78.32	78.78	0.29	1.17
4.63	79.06	78.42	78.74	0.29	1.17
4.67	78.93	78.56	78.74	0.30	1.17
4.72	78.57	78.50	78.53	0.30	1.17
4.77	78.20	79.10	78.65	0.31	1.17
4.82	77.28	78.56	77.92	0.31	1.17
4.87	77.11	78.78	77.94	0.31	1.17
4.92	78.13	79.40	78.76	0.31	1.17
4.97	78.35	79.32	78.83	0.31	1.17
5.02	78.43	79.28	78.86	0.31	1.17
5.07	78.58	78.88	78.73	0.30	1.17
5.12	78.30	78.75	78.53	0.30	1.17
5.17	78.67	79.19	78.93	0.31	1.17
5.22	78.91	78.76	78.84	0.30	1.17
5.26	78.24	79.26	78.75	0.31	1.17

5.31	78.94	78.80	78.87	0.30	1.17
5.36	78.53	78.27	78.40	0.29	1.17
5.41	79.45	78.29	78.87	0.29	1.17
5.46	78.86	77.53	78.20	0.28	1.17
5.51	78.88	77.71	78.30	0.28	1.17
5.56	78.87	77.94	78.41	0.28	1.17
5.61	78.17	77.84	78.00	0.29	1.17
5.66	78.75	78.82	78.79	0.30	1.17
5.71	78.68	78.70	78.69	0.30	1.17
5.76	79.08	78.16	78.62	0.29	1.17
5.81	79.76	78.10	78.93	0.28	1.17
5.86	79.54	78.28	78.91	0.29	1.17
5.90	79.24	78.35	78.80	0.29	1.17
5.95	78.85	79.01	78.93	0.31	1.17
6.00	78.26	79.38	78.82	0.31	1.17
6.05	77.51	79.41	78.46	0.32	1.17
6.10	77.90	79.63	78.76	0.32	1.17
6.15	77.22	79.07	78.15	0.32	1.17
6.20	78.08	79.86	78.97	0.32	1.17
6.25	77.85	79.67	78.76	0.32	1.17
6.30	78.34	79.55	78.94	0.31	1.17
6.35	78.64	79.14	78.89	0.31	1.17
6.40	78.47	78.59	78.53	0.30	1.17
6.45	78.99	78.61	78.80	0.30	1.17
6.49	78.06	78.40	78.23	0.30	1.17
6.54	78.81	79.16	78.99	0.31	1.17
6.59	78.54	79.03	78.78	0.31	1.17
6.64	78.52	78.93	78.72	0.31	1.17
6.69	78.62	78.83	78.73	0.30	1.17
6.74	78.28	78.58	78.43	0.30	1.17
6.79	78.50	78.48	78.49	0.30	1.17
6.84	78.12	78.12	78.12	0.30	1.17
6.89	78.28	78.51	78.40	0.30	1.17
6.94	77.76	79.05	78.40	0.31	1.17
6.99	76.95	79.08	78.01	0.31	1.17
7.04	77.43	80.03	78.73	0.33	1.17
7.09	77.47	80.05	78.76	0.33	1.17
7.13	77.63	79.98	78.80	0.33	1.17
7.18	77.92	79.55	78.74	0.32	1.17
7.23	78.13	79.35	78.74	0.32	1.17
7.28	78.42	79.27	78.84	0.31	1.17
7.33	78.53	79.11	78.82	0.31	1.17
7.38	77.73	79.00	78.37	0.31	1.17
7.43	78.63	78.76	78.69	0.30	1.17
7.48	79.04	78.63	78.83	0.30	1.17
7.53	79.08	78.16	78.62	0.29	1.17
7.58	79.37	78.13	78.75	0.29	1.17
7.63	78.72	77.91	78.31	0.28	1.17
7.68	78.59	77.91	78.25	0.29	1.17
7.73	78.36	78.09	78.23	0.29	1.17
7.77	78.44	78.69	78.56	0.30	1.17
7.82	77.06	78.57	77.82	0.31	1.17
7.87	77.58	80.21	78.89	0.33	1.17
7.92	77.64	80.12	78.88	0.33	1.17
7.97	76.73	79.47	78.10	0.32	1.17
8.02	78.11	79.62	78.87	0.32	1.17
8.07	77.90	78.82	78.36	0.30	1.17
8.12	77.73	78.24	77.98	0.29	1.17
8.17	78.64	78.25	78.45	0.29	1.17
8.22	78.22	78.08	78.15	0.29	1.17
8.27	79.02	78.60	78.81	0.30	1.17
8.32	78.93	78.68	78.80	0.30	1.17
8.36	77.91	78.08	78.00	0.29	1.17
8.41	78.85	78.63	78.74	0.30	1.17
8.46	78.33	78.25	78.29	0.29	1.17
8.51	78.97	78.67	78.82	0.30	1.17
8.56	78.82	78.62	78.72	0.30	1.17
8.61	78.73	78.79	78.76	0.30	1.17
8.66	78.73	79.10	78.91	0.30	1.17
8.71	78.46	79.01	78.73	0.31	1.17
8.76	78.25	78.81	78.53	0.30	1.17
8.81	78.33	78.83	78.58	0.31	1.17

8.86	78.06	78.70	78.38	0.30	1.17
8.91	78.42	79.07	78.74	0.31	1.17
8.96	77.78	78.53	78.15	0.30	1.17
9.00	78.47	78.90	78.69	0.31	1.17
9.05	78.75	78.76	78.76	0.30	1.17
9.10	78.11	78.12	78.12	0.29	1.17
9.15	78.28	77.99	78.13	0.29	1.17
9.20	78.23	77.90	78.07	0.29	1.17
9.25	78.51	78.13	78.32	0.29	1.17
9.30	78.00	78.03	78.01	0.29	1.17
9.35	78.04	78.09	78.06	0.29	1.17
9.40	78.69	78.76	78.72	0.30	1.17
9.45	78.47	78.83	78.65	0.30	1.17
9.50	78.37	79.04	78.70	0.31	1.17
9.55	78.70	78.81	78.75	0.30	1.17
9.59	78.90	78.66	78.78	0.30	1.17
9.64	79.24	78.50	78.87	0.29	1.17
9.69	79.10	78.22	78.66	0.29	1.17
9.74	78.31	77.91	78.11	0.29	1.17
9.79	78.26	78.09	78.17	0.29	1.17
9.84	78.85	78.81	78.83	0.30	1.17
9.89	77.71	78.00	77.86	0.29	1.17
9.94	78.46	78.53	78.49	0.30	1.17
9.99	77.97	78.90	78.44	0.31	1.17