

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:06 BST 2023

## Experiment info

Name	csg524 Treated Sample 2 Measurement 2
Type	Contact angle
Date	18-May-2023 14:38

## Solid

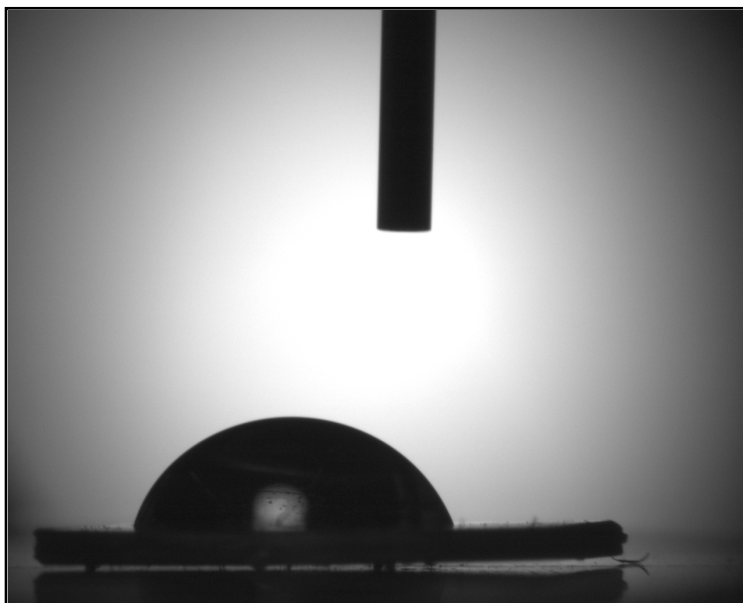
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

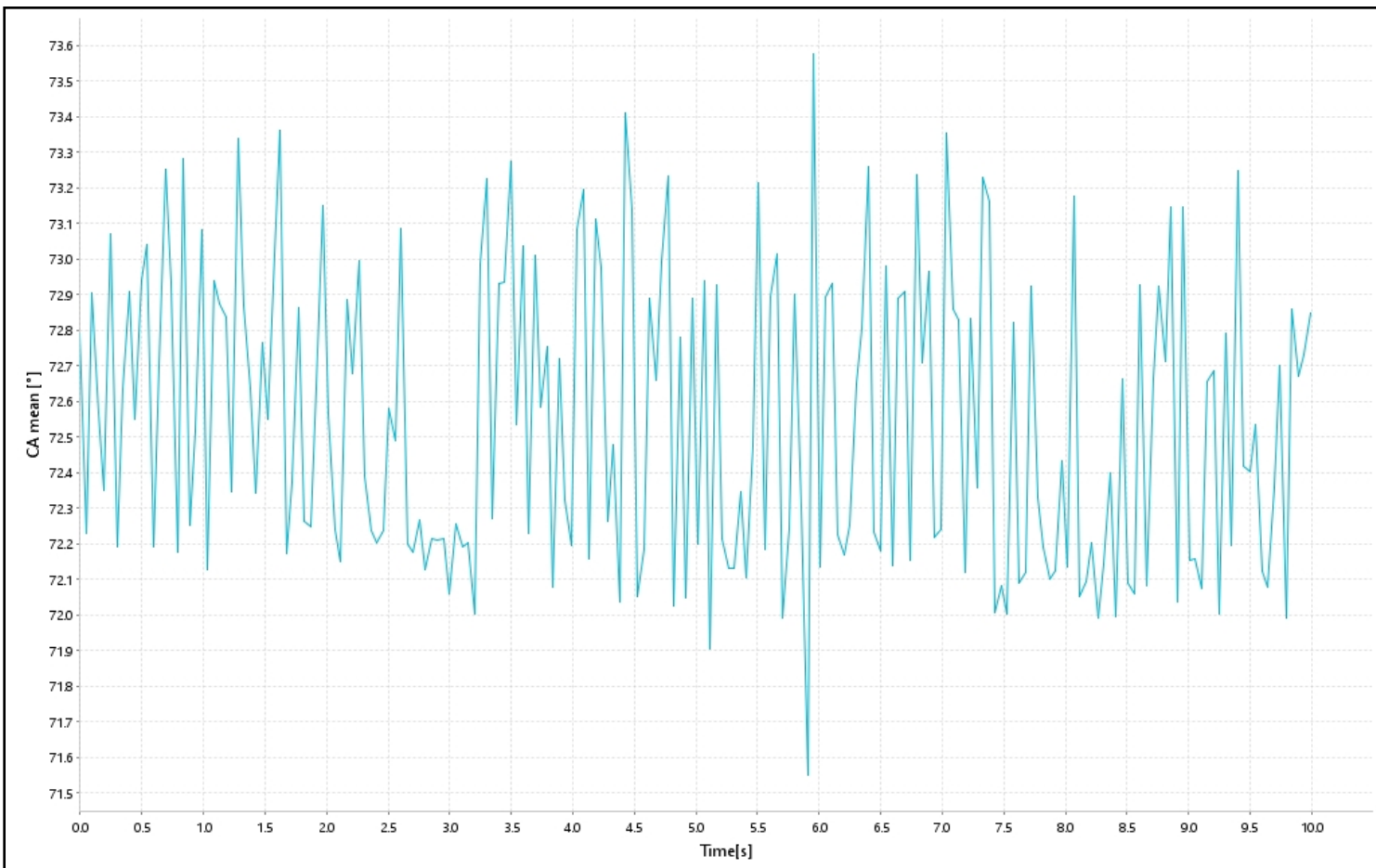
## Heavy phase

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	73.97	71.62	72.79	0.23	1.19
0.05	73.51	70.95	72.23	0.22	1.19
0.10	74.15	71.66	72.91	0.23	1.19
0.15	73.85	71.29	72.57	0.23	1.19
0.20	73.67	71.03	72.35	0.22	1.19
0.25	74.27	71.87	73.07	0.23	1.19
0.30	73.44	70.94	72.19	0.22	1.19
0.34	73.88	71.38	72.63	0.23	1.19
0.39	74.13	71.68	72.91	0.23	1.19
0.44	73.82	71.28	72.55	0.23	1.19
0.49	74.14	71.73	72.94	0.23	1.19
0.54	74.24	71.84	73.04	0.23	1.19
0.59	73.47	70.92	72.19	0.22	1.19
0.64	74.01	71.39	72.70	0.23	1.19
0.69	74.48	72.02	73.25	0.23	1.19
0.74	74.15	71.72	72.94	0.23	1.19
0.79	73.49	70.86	72.17	0.22	1.19
0.84	74.52	72.04	73.28	0.23	1.19
0.89	73.63	70.87	72.25	0.22	1.19
0.93	73.88	71.15	72.52	0.22	1.19
0.98	74.49	71.67	73.08	0.22	1.19
1.03	73.55	70.71	72.13	0.22	1.19
1.08	74.26	71.61	72.94	0.22	1.19
1.13	74.25	71.50	72.87	0.22	1.19
1.18	73.99	71.68	72.84	0.23	1.19
1.23	73.77	70.92	72.35	0.22	1.19
1.28	74.67	72.00	73.34	0.23	1.19
1.33	74.07	71.67	72.87	0.23	1.19
1.38	73.94	71.33	72.64	0.22	1.19
1.43	73.61	71.07	72.34	0.22	1.19
1.48	73.93	71.60	72.76	0.23	1.19
1.53	73.77	71.32	72.55	0.23	1.19
1.57	74.16	71.86	73.01	0.23	1.19
1.62	74.57	72.15	73.36	0.23	1.19
1.67	73.35	70.99	72.17	0.23	1.19
1.72	73.77	70.98	72.37	0.22	1.19

1.77	74.29	71.44	72.86	0.22	1.19
1.82	73.67	70.85	72.26	0.22	1.19
1.87	73.74	70.75	72.25	0.22	1.19
1.92	74.24	71.03	72.64	0.21	1.19
1.97	74.33	71.97	73.15	0.23	1.19
2.02	73.89	71.24	72.57	0.22	1.19
2.07	73.79	70.69	72.24	0.21	1.19
2.12	73.40	70.90	72.15	0.23	1.19
2.16	74.07	71.70	72.88	0.23	1.19
2.21	74.27	71.08	72.68	0.21	1.19
2.26	74.32	71.67	73.00	0.23	1.19
2.31	73.73	71.06	72.39	0.22	1.19
2.36	73.87	70.60	72.24	0.21	1.19
2.41	73.57	70.83	72.20	0.22	1.19
2.46	73.55	70.92	72.24	0.22	1.19
2.51	73.92	71.24	72.58	0.22	1.19
2.56	73.77	71.21	72.49	0.22	1.19
2.61	74.19	71.98	73.09	0.23	1.19
2.66	73.58	70.82	72.20	0.22	1.19
2.71	73.72	70.63	72.17	0.22	1.19
2.76	73.59	70.95	72.27	0.23	1.19
2.80	73.48	70.77	72.13	0.22	1.19
2.85	73.67	70.76	72.21	0.22	1.19
2.90	73.61	70.81	72.21	0.22	1.19
2.95	73.66	70.76	72.21	0.22	1.19
3.00	73.49	70.63	72.06	0.22	1.19
3.05	73.48	71.03	72.25	0.23	1.19
3.10	73.37	71.01	72.19	0.23	1.19
3.15	73.43	70.97	72.20	0.22	1.19
3.20	73.49	70.52	72.00	0.21	1.19
3.25	74.32	71.64	72.98	0.23	1.19
3.30	74.46	71.99	73.23	0.23	1.19
3.35	74.11	70.43	72.27	0.20	1.19
3.40	73.68	72.18	72.93	0.24	1.19
3.44	74.58	71.29	72.93	0.22	1.19
3.49	74.66	71.89	73.28	0.23	1.19
3.54	73.75	71.32	72.53	0.23	1.19
3.59	74.39	71.68	73.04	0.23	1.19
3.64	73.66	70.79	72.23	0.22	1.19
3.69	74.23	71.79	73.01	0.23	1.19
3.74	73.92	71.24	72.58	0.22	1.19
3.79	74.11	71.40	72.75	0.22	1.19
3.84	73.29	70.86	72.08	0.23	1.19
3.89	73.94	71.50	72.72	0.23	1.19
3.94	73.92	70.72	72.32	0.21	1.19
3.99	73.67	70.72	72.20	0.22	1.19
4.03	74.36	71.80	73.08	0.23	1.19
4.08	74.47	71.92	73.20	0.23	1.19
4.13	73.66	70.65	72.16	0.21	1.19
4.18	74.50	71.72	73.11	0.22	1.19
4.23	74.34	71.61	72.97	0.22	1.19
4.28	73.84	70.68	72.26	0.22	1.19
4.33	73.89	71.07	72.48	0.22	1.19
4.38	73.53	70.54	72.03	0.22	1.19
4.43	74.74	72.08	73.41	0.23	1.19
4.48	74.42	71.86	73.14	0.23	1.20
4.53	73.46	70.64	72.05	0.22	1.19
4.58	73.60	70.77	72.18	0.22	1.19
4.63	74.13	71.66	72.89	0.23	1.19
4.67	73.85	71.47	72.66	0.22	1.19
4.72	74.31	71.67	72.99	0.23	1.19
4.77	74.46	72.00	73.23	0.23	1.19
4.82	73.42	70.63	72.03	0.22	1.19
4.87	74.14	71.42	72.78	0.22	1.19
4.92	73.48	70.61	72.05	0.22	1.19
4.97	74.18	71.60	72.89	0.23	1.19
5.02	73.67	70.73	72.20	0.22	1.19
5.07	74.31	71.57	72.94	0.23	1.19
5.12	73.34	70.46	71.90	0.22	1.19
5.17	74.20	71.65	72.93	0.23	1.19
5.22	73.63	70.79	72.21	0.22	1.19
5.26	73.51	70.75	72.13	0.22	1.19

5.31	73.46	70.80	72.13	0.22	1.19
5.36	73.78	70.91	72.34	0.22	1.19
5.41	73.39	70.82	72.11	0.22	1.19
5.46	73.78	71.16	72.47	0.22	1.19
5.51	74.37	72.05	73.21	0.23	1.19
5.56	73.54	70.82	72.18	0.22	1.19
5.61	74.14	71.65	72.89	0.23	1.19
5.66	74.26	71.77	73.01	0.23	1.19
5.71	73.26	70.72	71.99	0.22	1.19
5.76	73.56	70.91	72.24	0.22	1.19
5.81	74.14	71.66	72.90	0.23	1.19
5.86	73.53	71.08	72.30	0.22	1.19
5.90	73.66	69.43	71.55	0.18	1.19
5.95	75.96	71.19	73.57	0.20	1.19
6.00	74.20	70.07	72.13	0.20	1.19
6.05	75.95	69.83	72.89	0.16	1.19
6.10	75.42	70.45	72.93	0.18	1.19
6.15	74.64	69.81	72.22	0.19	1.19
6.20	74.61	69.73	72.17	0.18	1.19
6.25	74.44	70.07	72.25	0.19	1.19
6.30	74.53	70.76	72.65	0.20	1.19
6.35	74.60	71.00	72.80	0.21	1.19
6.40	74.84	71.67	73.26	0.22	1.19
6.45	73.96	70.50	72.23	0.21	1.19
6.49	73.77	70.59	72.18	0.21	1.19
6.54	74.40	71.56	72.98	0.22	1.19
6.59	73.73	70.55	72.14	0.22	1.19
6.64	74.16	71.61	72.89	0.22	1.19
6.69	74.22	71.60	72.91	0.22	1.19
6.74	73.58	70.73	72.15	0.22	1.19
6.79	74.53	71.94	73.24	0.23	1.19
6.84	74.04	71.38	72.71	0.22	1.19
6.89	74.22	71.71	72.96	0.23	1.19
6.94	73.61	70.83	72.22	0.22	1.19
6.99	73.67	70.81	72.24	0.22	1.19
7.04	74.62	72.09	73.35	0.23	1.19
7.09	74.18	71.54	72.86	0.22	1.19
7.13	74.15	71.51	72.83	0.22	1.19
7.18	73.58	70.66	72.12	0.22	1.19
7.23	74.17	71.50	72.83	0.22	1.19
7.28	73.68	71.03	72.36	0.22	1.19
7.33	74.54	71.93	73.23	0.23	1.19
7.38	74.37	71.95	73.16	0.23	1.19
7.43	73.39	70.63	72.01	0.22	1.19
7.48	73.46	70.70	72.08	0.22	1.19
7.53	73.37	70.63	72.00	0.22	1.19
7.58	74.19	71.45	72.82	0.22	1.19
7.63	73.49	70.69	72.09	0.22	1.19
7.68	73.48	70.76	72.12	0.22	1.19
7.73	74.24	71.61	72.92	0.23	1.19
7.77	73.67	70.99	72.33	0.22	1.19
7.82	73.63	70.75	72.19	0.22	1.19
7.87	73.52	70.67	72.10	0.22	1.19
7.92	73.58	70.67	72.12	0.22	1.19
7.97	73.79	71.07	72.43	0.22	1.19
8.02	73.54	70.72	72.13	0.22	1.19
8.07	74.47	71.88	73.18	0.23	1.19
8.12	73.53	70.57	72.05	0.22	1.19
8.17	73.52	70.67	72.09	0.22	1.19
8.22	73.62	70.78	72.20	0.22	1.19
8.27	73.37	70.61	71.99	0.22	1.19
8.32	73.56	70.72	72.14	0.22	1.19
8.36	73.71	71.09	72.40	0.22	1.19
8.41	73.41	70.57	71.99	0.22	1.19
8.46	74.04	71.28	72.66	0.22	1.19
8.51	73.48	70.70	72.09	0.22	1.19
8.56	73.50	70.62	72.06	0.22	1.19
8.61	74.28	71.58	72.93	0.22	1.19
8.66	73.51	70.65	72.08	0.22	1.19
8.71	74.03	71.29	72.66	0.22	1.19
8.76	74.19	71.65	72.92	0.23	1.19
8.81	74.05	71.37	72.71	0.22	1.19

8.86	74.40	71.89	73.15	0.23	1.19
8.91	73.50	70.58	72.04	0.22	1.19
8.96	74.34	71.95	73.14	0.23	1.19
9.00	73.53	70.78	72.15	0.22	1.19
9.05	73.55	70.76	72.16	0.22	1.19
9.10	73.50	70.65	72.07	0.22	1.19
9.15	73.94	71.37	72.65	0.22	1.19
9.20	74.03	71.34	72.69	0.22	1.19
9.25	73.47	70.53	72.00	0.22	1.19
9.30	74.12	71.46	72.79	0.22	1.19
9.35	73.60	70.79	72.19	0.22	1.19
9.40	74.49	72.00	73.25	0.23	1.19
9.45	73.79	71.05	72.42	0.22	1.19
9.50	73.79	71.02	72.40	0.22	1.19
9.55	73.92	71.14	72.53	0.22	1.19
9.59	73.52	70.73	72.12	0.22	1.19
9.64	73.56	70.59	72.08	0.22	1.19
9.69	73.72	70.99	72.36	0.22	1.19
9.74	74.11	71.29	72.70	0.22	1.19
9.79	73.37	70.61	71.99	0.22	1.19
9.84	74.14	71.58	72.86	0.23	1.19
9.89	73.90	71.44	72.67	0.23	1.19
9.94	74.07	71.39	72.73	0.22	1.19
9.99	74.20	71.49	72.85	0.22	1.19