

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:27 BST 2023

## Experiment info

Name	csg524 Treated Sample 2 Measurement 5
Type	Contact angle
Date	18-May-2023 14:41

## Solid

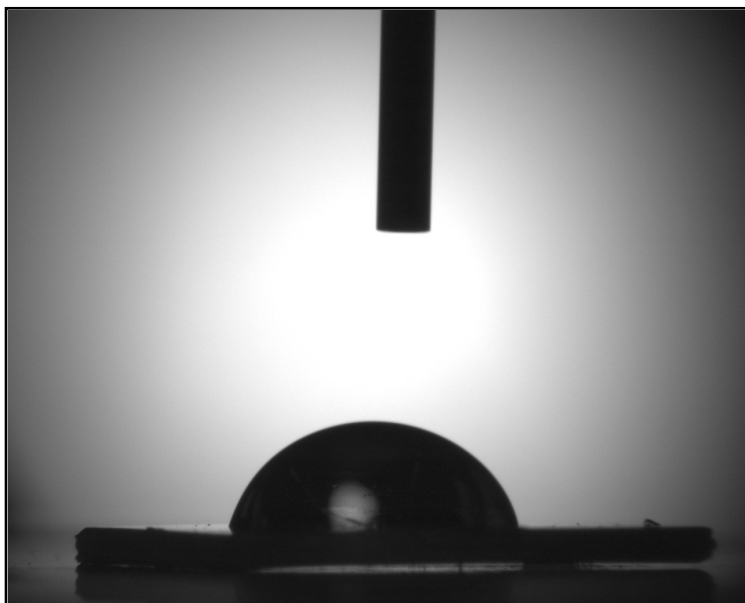
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

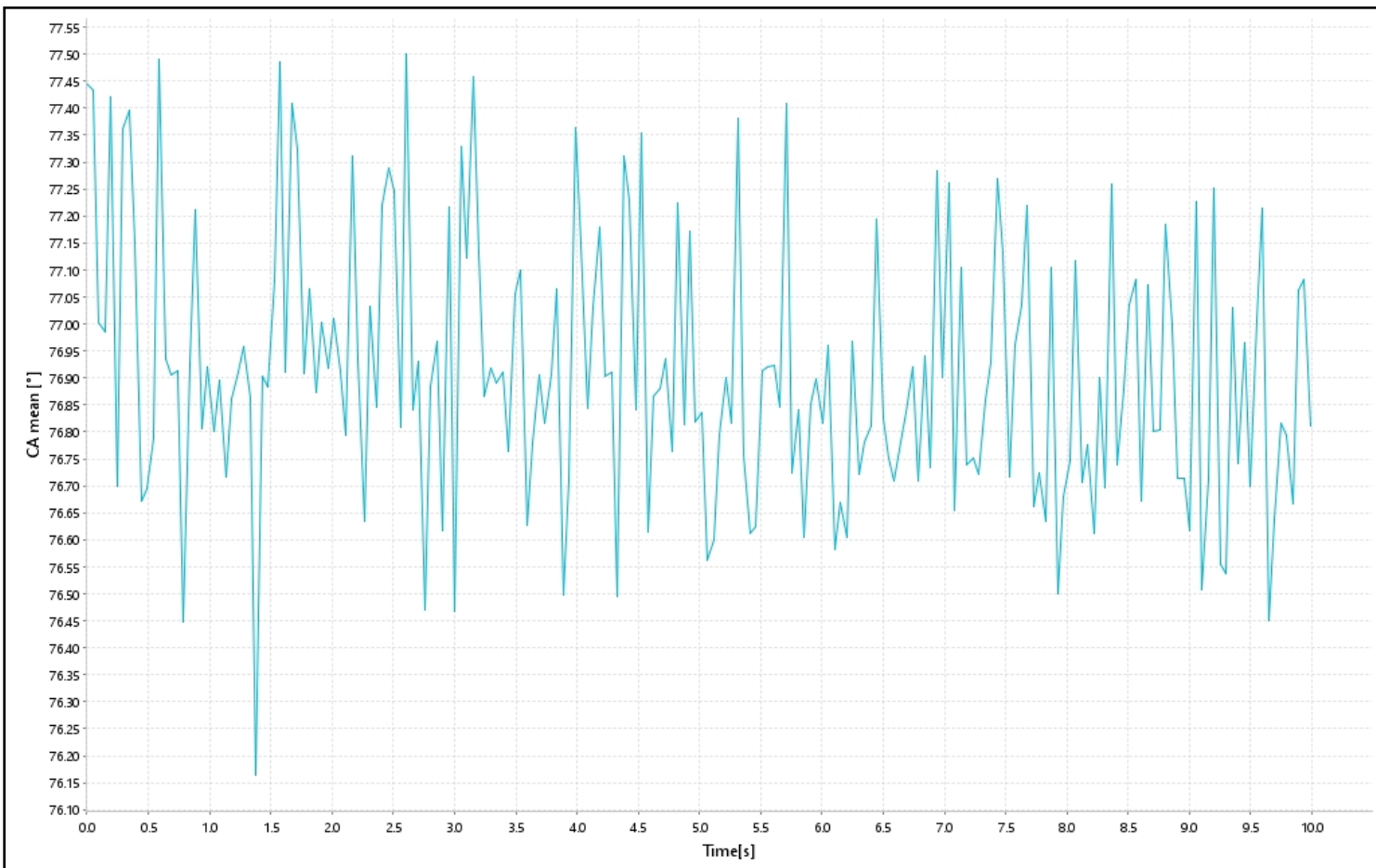
## Heavy phase

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	78.01	76.88	77.44	0.20	1.07
0.05	78.02	76.84	77.43	0.21	1.08
0.10	77.72	76.29	77.00	0.20	1.07
0.15	77.70	76.27	76.99	0.20	1.07
0.20	78.04	76.80	77.42	0.20	1.07
0.25	77.60	75.80	76.70	0.20	1.07
0.30	78.19	76.53	77.36	0.20	1.07
0.34	78.26	76.53	77.40	0.20	1.07
0.39	77.83	76.47	77.15	0.20	1.07
0.44	77.61	75.73	76.67	0.19	1.07
0.49	77.61	75.78	76.70	0.20	1.07
0.54	77.43	76.15	76.79	0.20	1.07
0.59	78.14	76.84	77.49	0.20	1.07
0.64	77.66	76.21	76.94	0.20	1.07
0.69	77.55	76.26	76.91	0.20	1.07
0.74	77.61	76.21	76.91	0.20	1.07
0.79	77.23	75.66	76.45	0.20	1.07
0.84	77.67	76.18	76.92	0.20	1.07
0.89	77.81	76.61	77.21	0.20	1.07
0.94	77.53	76.08	76.81	0.20	1.07
0.98	77.64	76.20	76.92	0.20	1.07
1.03	77.51	76.09	76.80	0.20	1.07
1.08	77.59	76.21	76.90	0.20	1.07
1.13	77.40	76.04	76.72	0.20	1.07
1.18	77.57	76.15	76.86	0.20	1.07
1.23	77.60	76.22	76.91	0.20	1.07
1.28	77.66	76.26	76.96	0.20	1.07
1.33	77.54	76.19	76.86	0.20	1.07
1.38	77.04	75.29	76.16	0.20	1.07
1.43	77.49	76.31	76.90	0.20	1.07
1.48	77.62	76.15	76.88	0.20	1.07
1.53	77.69	76.47	77.08	0.20	1.07
1.57	78.08	76.89	77.48	0.21	1.08
1.62	77.55	76.27	76.91	0.20	1.07
1.67	78.01	76.81	77.41	0.21	1.07
1.72	77.95	76.70	77.32	0.20	1.07

1.77	77.52	76.29	76.91	0.20	1.07
1.82	77.69	76.43	77.06	0.20	1.07
1.87	77.58	76.17	76.87	0.20	1.07
1.92	77.70	76.31	77.00	0.20	1.07
1.97	77.64	76.20	76.92	0.20	1.07
2.02	77.64	76.39	77.01	0.20	1.07
2.07	77.56	76.27	76.91	0.20	1.07
2.12	77.53	76.06	76.79	0.20	1.07
2.16	77.85	76.77	77.31	0.20	1.07
2.21	77.62	76.25	76.94	0.20	1.07
2.26	77.35	75.92	76.63	0.20	1.07
2.31	77.66	76.40	77.03	0.20	1.07
2.36	77.51	76.18	76.85	0.20	1.07
2.41	77.85	76.59	77.22	0.20	1.07
2.46	77.79	76.79	77.29	0.20	1.07
2.51	77.92	76.57	77.25	0.20	1.07
2.56	77.60	76.02	76.81	0.20	1.07
2.61	78.00	77.00	77.50	0.21	1.08
2.66	77.55	76.13	76.84	0.20	1.07
2.71	77.61	76.25	76.93	0.20	1.07
2.76	77.22	75.72	76.47	0.20	1.07
2.80	77.49	76.27	76.88	0.20	1.07
2.85	77.64	76.30	76.97	0.20	1.07
2.90	77.31	75.93	76.62	0.20	1.07
2.95	77.79	76.64	77.22	0.20	1.07
3.00	77.28	75.65	76.47	0.20	1.07
3.05	77.88	76.78	77.33	0.21	1.07
3.10	77.82	76.42	77.12	0.20	1.07
3.15	77.99	76.92	77.46	0.21	1.07
3.20	77.70	76.56	77.13	0.20	1.07
3.25	77.55	76.18	76.87	0.20	1.07
3.30	77.57	76.27	76.92	0.20	1.07
3.35	77.47	76.31	76.89	0.20	1.07
3.40	77.62	76.20	76.91	0.20	1.07
3.44	77.46	76.07	76.76	0.20	1.07
3.49	77.72	76.38	77.05	0.20	1.07
3.54	77.63	76.56	77.10	0.20	1.07
3.59	77.35	75.90	76.63	0.20	1.07
3.64	77.56	75.99	76.78	0.20	1.07
3.69	77.51	76.30	76.90	0.20	1.07
3.74	77.50	76.13	76.82	0.20	1.07
3.79	77.66	76.16	76.91	0.20	1.07
3.84	77.59	76.54	77.07	0.20	1.07
3.89	77.25	75.75	76.50	0.20	1.07
3.94	77.38	76.04	76.71	0.20	1.07
3.99	77.85	76.87	77.36	0.21	1.08
4.03	77.73	76.57	77.15	0.20	1.07
4.08	77.47	76.22	76.84	0.20	1.07
4.13	77.62	76.44	77.03	0.20	1.07
4.18	77.74	76.62	77.18	0.20	1.07
4.23	77.62	76.19	76.90	0.20	1.07
4.28	77.60	76.22	76.91	0.20	1.07
4.33	77.23	75.76	76.50	0.20	1.07
4.38	77.88	76.74	77.31	0.21	1.07
4.43	77.84	76.62	77.23	0.20	1.07
4.48	77.47	76.21	76.84	0.20	1.07
4.53	78.01	76.70	77.35	0.20	1.08
4.58	77.46	75.77	76.61	0.20	1.07
4.63	77.50	76.23	76.87	0.20	1.07
4.67	77.57	76.19	76.88	0.20	1.07
4.72	77.58	76.29	76.93	0.20	1.07
4.77	77.43	76.09	76.76	0.20	1.07
4.82	77.83	76.62	77.22	0.20	1.07
4.87	77.51	76.11	76.81	0.20	1.07
4.92	77.75	76.59	77.17	0.20	1.07
4.97	77.53	76.11	76.82	0.20	1.07
5.02	77.45	76.22	76.84	0.20	1.07
5.07	77.30	75.83	76.56	0.20	1.07
5.12	77.29	75.91	76.60	0.20	1.07
5.17	77.48	76.11	76.79	0.20	1.07
5.22	77.58	76.22	76.90	0.20	1.07
5.26	77.49	76.15	76.82	0.20	1.07

5.31	77.93	76.83	77.38	0.21	1.07
5.36	77.44	76.08	76.76	0.20	1.07
5.41	77.37	75.85	76.61	0.20	1.07
5.46	77.32	75.93	76.63	0.20	1.07
5.51	77.55	76.28	76.91	0.20	1.07
5.56	77.58	76.26	76.92	0.20	1.07
5.61	77.62	76.23	76.92	0.20	1.07
5.66	77.42	76.27	76.85	0.20	1.07
5.71	77.99	76.83	77.41	0.20	1.07
5.76	77.49	75.96	76.72	0.20	1.08
5.81	77.53	76.15	76.84	0.20	1.07
5.86	77.35	75.86	76.60	0.20	1.07
5.90	77.52	76.18	76.85	0.20	1.07
5.95	77.63	76.16	76.90	0.20	1.07
6.00	77.42	76.21	76.81	0.20	1.07
6.05	77.54	76.38	76.96	0.20	1.07
6.10	77.33	75.84	76.58	0.20	1.07
6.15	77.40	75.94	76.67	0.20	1.07
6.20	77.33	75.89	76.61	0.20	1.07
6.25	77.63	76.31	76.97	0.20	1.07
6.30	77.47	75.97	76.72	0.20	1.07
6.35	77.52	76.04	76.78	0.20	1.07
6.40	77.51	76.11	76.81	0.20	1.07
6.45	77.79	76.60	77.19	0.20	1.07
6.49	77.57	76.08	76.83	0.20	1.07
6.54	77.48	76.02	76.75	0.20	1.07
6.59	77.41	76.00	76.71	0.20	1.07
6.64	77.51	76.06	76.78	0.20	1.07
6.69	77.50	76.17	76.84	0.20	1.07
6.74	77.55	76.29	76.92	0.20	1.07
6.79	77.47	75.95	76.71	0.20	1.07
6.84	77.62	76.26	76.94	0.20	1.07
6.89	77.41	76.06	76.73	0.20	1.07
6.94	77.88	76.69	77.28	0.20	1.07
6.99	77.61	76.19	76.90	0.20	1.07
7.04	77.83	76.69	77.26	0.20	1.07
7.09	77.34	75.97	76.65	0.20	1.07
7.13	77.76	76.46	77.11	0.20	1.07
7.18	77.44	76.04	76.74	0.20	1.07
7.23	77.45	76.06	76.75	0.20	1.07
7.28	77.44	76.00	76.72	0.20	1.07
7.33	77.49	76.22	76.86	0.20	1.07
7.38	77.59	76.26	76.93	0.20	1.07
7.43	77.81	76.73	77.27	0.20	1.08
7.48	77.68	76.58	77.13	0.20	1.07
7.53	77.34	76.10	76.72	0.20	1.07
7.58	77.62	76.30	76.96	0.20	1.07
7.63	77.64	76.42	77.03	0.20	1.07
7.68	77.76	76.68	77.22	0.20	1.07
7.73	77.40	75.93	76.66	0.20	1.07
7.77	77.37	76.08	76.72	0.20	1.07
7.82	77.33	75.94	76.63	0.20	1.07
7.87	77.72	76.49	77.10	0.20	1.07
7.92	77.25	75.75	76.50	0.20	1.07
7.97	77.36	75.99	76.68	0.20	1.07
8.02	77.43	76.06	76.75	0.20	1.07
8.07	77.75	76.49	77.12	0.20	1.07
8.12	77.39	76.02	76.71	0.20	1.07
8.17	77.45	76.10	76.78	0.20	1.07
8.22	77.40	75.82	76.61	0.20	1.07
8.27	77.53	76.27	76.90	0.20	1.07
8.32	77.37	76.03	76.70	0.20	1.07
8.36	77.79	76.73	77.26	0.20	1.07
8.41	77.41	76.07	76.74	0.20	1.07
8.46	77.56	76.19	76.88	0.20	1.07
8.51	77.61	76.46	77.03	0.20	1.07
8.56	77.66	76.50	77.08	0.20	1.07
8.61	77.32	76.03	76.67	0.20	1.07
8.66	77.71	76.43	77.07	0.20	1.07
8.71	77.47	76.13	76.80	0.20	1.07
8.76	77.52	76.09	76.80	0.20	1.07
8.81	77.77	76.61	77.19	0.20	1.07

8.86	77.57	76.42	77.00	0.20	1.08
8.91	77.44	75.98	76.71	0.20	1.07
8.96	77.39	76.04	76.71	0.20	1.07
9.00	77.38	75.85	76.62	0.20	1.07
9.05	77.80	76.65	77.23	0.20	1.07
9.10	77.25	75.76	76.51	0.20	1.07
9.15	77.35	76.07	76.71	0.20	1.07
9.20	77.78	76.73	77.25	0.20	1.07
9.25	77.20	75.91	76.55	0.20	1.07
9.30	77.30	75.77	76.54	0.20	1.07
9.35	77.66	76.40	77.03	0.20	1.07
9.40	77.44	76.04	76.74	0.20	1.07
9.45	77.51	76.42	76.97	0.20	1.07
9.50	77.44	75.96	76.70	0.20	1.07
9.55	77.67	76.34	77.01	0.20	1.07
9.59	77.79	76.64	77.21	0.20	1.07
9.64	77.24	75.65	76.45	0.20	1.07
9.69	77.33	75.94	76.64	0.20	1.07
9.74	77.50	76.14	76.82	0.20	1.07
9.79	77.45	76.13	76.79	0.20	1.07
9.84	77.34	75.99	76.67	0.20	1.07
9.89	77.63	76.49	77.06	0.20	1.07
9.94	77.62	76.55	77.08	0.20	1.07
9.99	77.47	76.15	76.81	0.20	1.07