

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:47 BST 2023

## Experiment info

Name	csg524 Treated Sample 3 Measurement 3
Type	Contact angle
Date	18-May-2023 15:04

## Solid

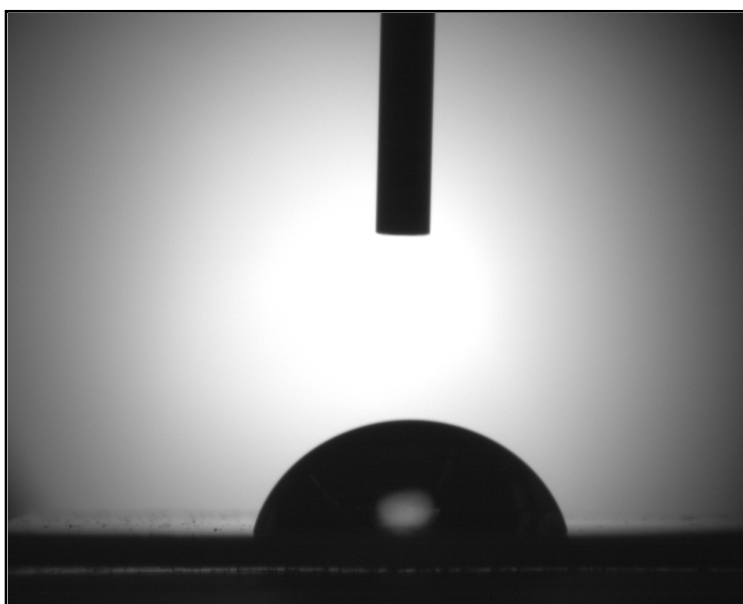
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

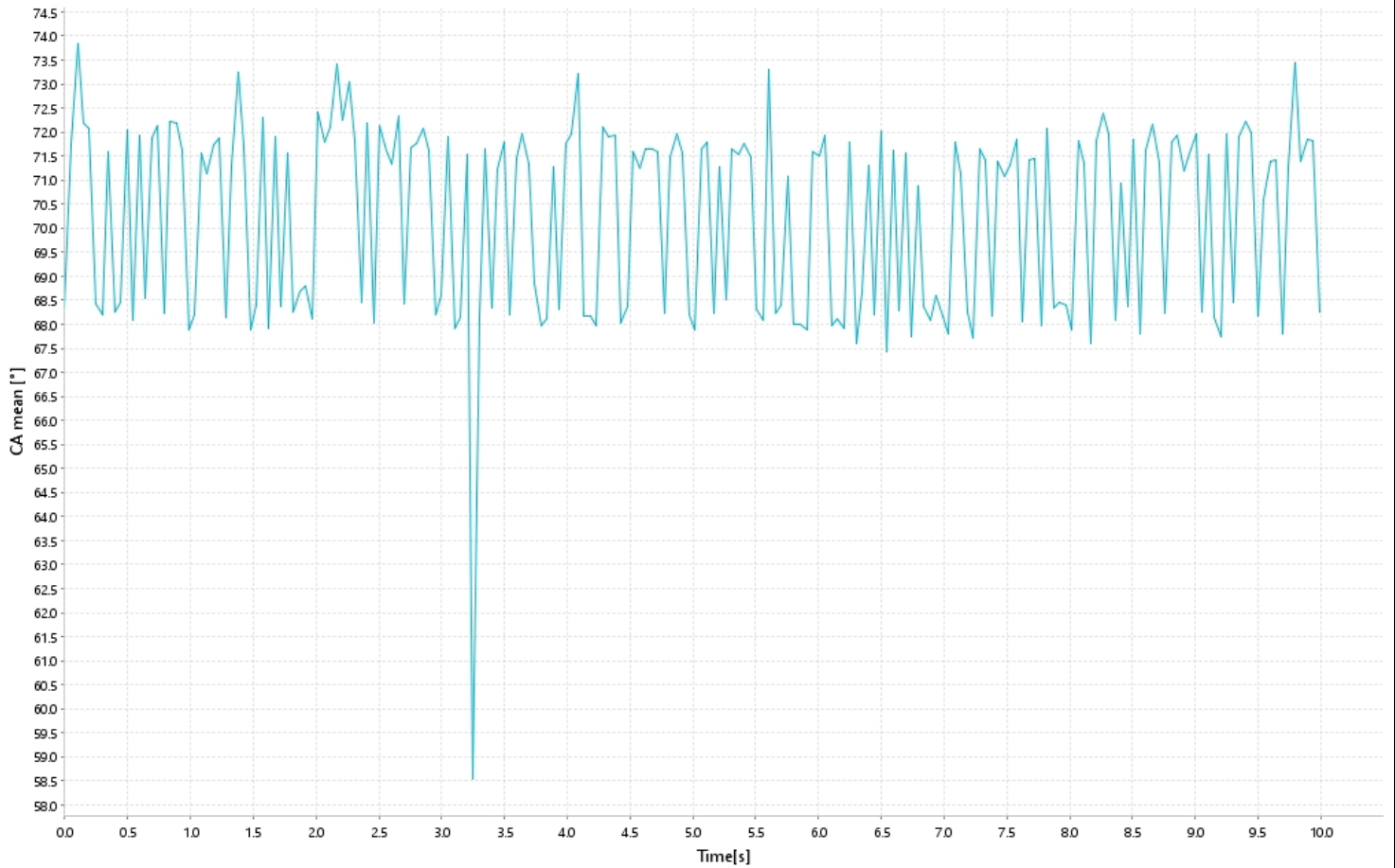
## Heavy phase

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	67.65	69.06	68.35	0.21	1.13
0.05	71.70	71.78	71.74	0.24	1.15
0.10	74.10	73.56	73.83	0.26	1.16
0.15	72.27	72.13	72.20	0.24	1.15
0.20	72.10	72.08	72.09	0.24	1.15
0.25	67.71	69.13	68.42	0.21	1.13
0.30	67.40	68.99	68.19	0.21	1.13
0.34	71.34	71.86	71.60	0.24	1.15
0.39	67.47	69.02	68.24	0.21	1.13
0.44	67.61	69.28	68.45	0.21	1.13
0.49	72.11	71.98	72.05	0.24	1.15
0.54	67.35	68.82	68.08	0.21	1.13
0.59	71.84	72.01	71.93	0.24	1.15
0.64	67.92	69.15	68.54	0.21	1.13
0.69	71.99	71.79	71.89	0.24	1.15
0.74	72.17	72.08	72.13	0.24	1.15
0.79	67.69	68.78	68.24	0.21	1.13
0.84	72.22	72.24	72.23	0.24	1.15
0.89	72.16	72.20	72.18	0.24	1.15
0.93	71.71	71.55	71.63	0.24	1.15
0.98	67.36	68.43	67.90	0.21	1.13
1.03	67.48	68.89	68.19	0.21	1.13
1.08	71.46	71.67	71.57	0.24	1.15
1.13	71.10	71.15	71.13	0.23	1.15
1.18	71.83	71.63	71.73	0.24	1.15
1.23	72.03	71.69	71.86	0.24	1.15
1.28	67.63	68.68	68.15	0.21	1.13
1.33	71.35	71.19	71.27	0.23	1.15
1.38	73.73	72.76	73.24	0.25	1.16
1.43	71.81	71.59	71.70	0.24	1.15
1.48	67.33	68.46	67.89	0.21	1.13
1.53	67.63	69.19	68.41	0.22	1.13
1.57	71.53	73.10	72.31	0.26	1.15
1.62	66.54	69.30	67.92	0.22	1.13
1.67	71.37	72.45	71.91	0.26	1.15
1.72	67.10	69.63	68.36	0.22	1.13

1.77	71.31	71.82	71.57	0.25	1.15
1.82	67.28	69.25	68.27	0.22	1.13
1.87	67.72	69.65	68.69	0.22	1.13
1.92	68.10	69.52	68.81	0.22	1.13
1.97	67.44	68.79	68.12	0.21	1.13
2.02	72.44	72.37	72.40	0.24	1.15
2.07	71.79	71.81	71.80	0.24	1.15
2.12	72.08	72.14	72.11	0.24	1.15
2.17	73.75	73.06	73.41	0.25	1.16
2.21	72.39	72.10	72.25	0.24	1.15
2.26	73.53	72.57	73.05	0.25	1.16
2.31	71.88	71.76	71.82	0.24	1.15
2.36	67.80	69.09	68.45	0.21	1.13
2.41	72.20	72.15	72.18	0.24	1.15
2.46	67.39	68.67	68.03	0.21	1.13
2.51	72.28	71.98	72.13	0.24	1.15
2.56	71.57	71.69	71.63	0.24	1.15
2.61	71.32	71.33	71.32	0.24	1.15
2.66	72.38	72.31	72.34	0.24	1.15
2.71	67.81	69.06	68.44	0.21	1.13
2.76	71.57	71.76	71.67	0.24	1.15
2.80	71.79	71.72	71.75	0.24	1.15
2.85	72.15	72.01	72.08	0.24	1.15
2.90	71.69	71.54	71.61	0.24	1.15
2.95	67.59	68.79	68.19	0.21	1.13
3.00	67.78	69.42	68.60	0.21	1.13
3.05	72.04	71.79	71.91	0.24	1.15
3.10	67.30	68.51	67.91	0.21	1.13
3.15	67.51	68.76	68.14	0.21	1.13
3.20	71.64	71.45	71.54	0.24	1.15
3.25	60.56	56.49	58.53	0.13	1.04
3.30	67.45	68.86	68.15	0.21	1.13
3.35	71.69	71.62	71.65	0.24	1.15
3.40	67.72	68.97	68.35	0.21	1.13
3.44	71.07	71.34	71.21	0.24	1.15
3.49	71.69	71.90	71.79	0.24	1.15
3.54	67.57	68.84	68.21	0.21	1.13
3.59	71.32	71.57	71.45	0.24	1.15
3.64	71.95	71.96	71.95	0.24	1.15
3.69	71.37	71.29	71.33	0.24	1.15
3.74	69.50	68.21	68.86	0.22	1.13
3.79	67.46	68.49	67.97	0.21	1.13
3.84	67.46	68.77	68.11	0.21	1.13
3.89	71.38	71.15	71.27	0.23	1.15
3.94	67.69	68.93	68.31	0.21	1.13
3.99	71.80	71.75	71.77	0.24	1.15
4.03	72.10	71.85	71.97	0.24	1.15
4.08	73.54	72.89	73.22	0.25	1.16
4.13	67.61	68.76	68.18	0.21	1.13
4.18	67.54	68.82	68.18	0.21	1.13
4.23	67.28	68.66	67.97	0.21	1.13
4.28	72.19	72.02	72.10	0.24	1.15
4.33	71.92	71.91	71.92	0.24	1.15
4.38	71.88	72.01	71.94	0.24	1.15
4.43	67.38	68.67	68.03	0.21	1.13
4.48	67.73	69.04	68.38	0.21	1.13
4.53	71.71	71.45	71.58	0.24	1.15
4.58	71.29	71.21	71.25	0.23	1.15
4.63	71.74	71.57	71.66	0.24	1.15
4.67	71.65	71.66	71.66	0.24	1.15
4.72	71.64	71.51	71.58	0.24	1.15
4.77	67.49	68.96	68.22	0.21	1.13
4.82	71.45	71.51	71.48	0.24	1.15
4.87	72.08	71.85	71.97	0.24	1.15
4.92	71.68	71.44	71.56	0.24	1.15
4.97	67.62	68.80	68.21	0.21	1.13
5.02	67.24	68.53	67.88	0.21	1.13
5.07	71.67	71.60	71.63	0.24	1.15
5.12	71.81	71.74	71.78	0.24	1.15
5.17	67.44	69.01	68.22	0.21	1.13
5.22	71.30	71.23	71.26	0.23	1.15
5.26	67.95	69.05	68.50	0.21	1.13

5.31	71.63	71.65	71.64	0.24	1.15
5.36	71.64	71.42	71.53	0.24	1.15
5.41	71.55	71.97	71.76	0.24	1.15
5.46	71.51	71.47	71.49	0.24	1.15
5.51	67.50	69.11	68.30	0.21	1.13
5.56	67.42	68.73	68.08	0.21	1.13
5.61	73.62	72.96	73.29	0.25	1.16
5.66	67.61	68.86	68.24	0.21	1.13
5.71	67.70	69.08	68.39	0.21	1.13
5.76	71.03	71.10	71.07	0.23	1.15
5.81	67.38	68.64	68.01	0.21	1.13
5.86	67.37	68.65	68.01	0.21	1.13
5.90	67.19	68.58	67.89	0.21	1.13
5.95	71.56	71.61	71.58	0.24	1.15
6.00	71.47	71.55	71.51	0.24	1.15
6.05	71.91	71.97	71.94	0.24	1.15
6.10	67.27	68.66	67.97	0.21	1.13
6.15	67.57	68.63	68.10	0.21	1.13
6.20	67.27	68.53	67.90	0.21	1.13
6.25	71.84	71.76	71.80	0.24	1.15
6.30	66.96	68.27	67.61	0.20	1.13
6.35	67.93	69.38	68.65	0.21	1.13
6.40	71.33	71.30	71.31	0.24	1.15
6.45	67.50	68.92	68.21	0.21	1.13
6.49	72.05	72.01	72.03	0.24	1.15
6.54	66.83	68.00	67.42	0.20	1.13
6.59	71.57	71.64	71.61	0.24	1.15
6.64	67.64	68.93	68.29	0.21	1.13
6.69	71.64	71.49	71.56	0.24	1.15
6.74	67.07	68.40	67.73	0.21	1.13
6.79	70.68	71.05	70.86	0.23	1.15
6.84	67.68	69.06	68.37	0.21	1.13
6.89	67.25	68.92	68.08	0.21	1.13
6.94	67.94	69.24	68.59	0.21	1.13
6.99	67.67	68.69	68.18	0.21	1.13
7.04	67.09	68.48	67.79	0.21	1.13
7.09	71.84	71.75	71.79	0.24	1.15
7.13	71.16	71.14	71.15	0.23	1.15
7.18	67.58	68.91	68.25	0.21	1.13
7.23	67.19	68.25	67.72	0.21	1.13
7.28	71.68	71.59	71.63	0.24	1.15
7.33	71.39	71.46	71.42	0.24	1.15
7.38	67.48	68.86	68.17	0.21	1.13
7.43	71.36	71.41	71.38	0.24	1.15
7.48	71.11	71.05	71.08	0.23	1.15
7.53	71.15	71.44	71.29	0.24	1.15
7.58	71.89	71.79	71.84	0.24	1.15
7.63	67.45	68.67	68.06	0.21	1.13
7.68	71.50	71.35	71.43	0.24	1.15
7.73	71.49	71.39	71.44	0.24	1.15
7.77	67.29	68.68	67.98	0.21	1.13
7.82	72.21	71.93	72.07	0.24	1.15
7.87	67.65	69.02	68.34	0.21	1.13
7.92	67.73	69.16	68.45	0.21	1.13
7.97	67.73	69.06	68.40	0.21	1.13
8.02	67.22	68.56	67.89	0.21	1.13
8.07	71.94	71.69	71.81	0.24	1.15
8.12	71.32	71.42	71.37	0.24	1.15
8.17	66.92	68.29	67.61	0.21	1.13
8.22	71.70	71.94	71.82	0.24	1.15
8.27	72.32	72.43	72.37	0.24	1.16
8.32	72.08	71.86	71.97	0.24	1.15
8.36	67.42	68.77	68.09	0.21	1.13
8.41	70.97	70.91	70.94	0.23	1.15
8.46	67.70	69.02	68.36	0.21	1.13
8.51	71.80	71.91	71.85	0.24	1.15
8.56	67.30	68.30	67.80	0.21	1.13
8.61	71.70	71.55	71.63	0.24	1.15
8.66	72.21	72.10	72.16	0.24	1.15
8.71	71.39	71.33	71.36	0.24	1.15
8.76	67.62	68.85	68.23	0.21	1.13
8.81	71.81	71.76	71.78	0.24	1.15

8.86	71.94	71.92	71.93	0.24	1.15
8.91	71.25	71.14	71.19	0.24	1.15
8.96	71.53	71.60	71.57	0.24	1.15
9.00	71.98	71.95	71.97	0.24	1.15
9.05	67.55	68.97	68.26	0.21	1.13
9.10	71.38	71.68	71.53	0.24	1.15
9.15	67.49	68.78	68.14	0.21	1.13
9.20	67.04	68.47	67.75	0.21	1.13
9.25	71.99	71.94	71.96	0.24	1.15
9.30	68.90	68.03	68.47	0.21	1.13
9.35	71.97	71.86	71.92	0.24	1.15
9.40	72.35	72.05	72.20	0.24	1.15
9.45	72.13	71.82	71.98	0.24	1.15
9.50	67.46	68.91	68.18	0.21	1.13
9.55	70.55	70.64	70.59	0.23	1.15
9.59	71.35	71.43	71.39	0.24	1.15
9.64	71.56	71.29	71.43	0.24	1.15
9.69	67.05	68.55	67.80	0.21	1.13
9.74	71.31	71.18	71.24	0.24	1.15
9.79	73.74	73.13	73.44	0.25	1.16
9.84	71.36	71.42	71.39	0.24	1.15
9.89	71.84	71.85	71.84	0.24	1.15
9.94	71.84	71.81	71.83	0.24	1.15
9.99	67.63	68.89	68.26	0.21	1.13