

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:59:17 BST 2023

## Experiment info

Name	csg524 Treated Sample 4 Measurement 4
Type	Contact angle
Date	18-May-2023 15:40

## Solid

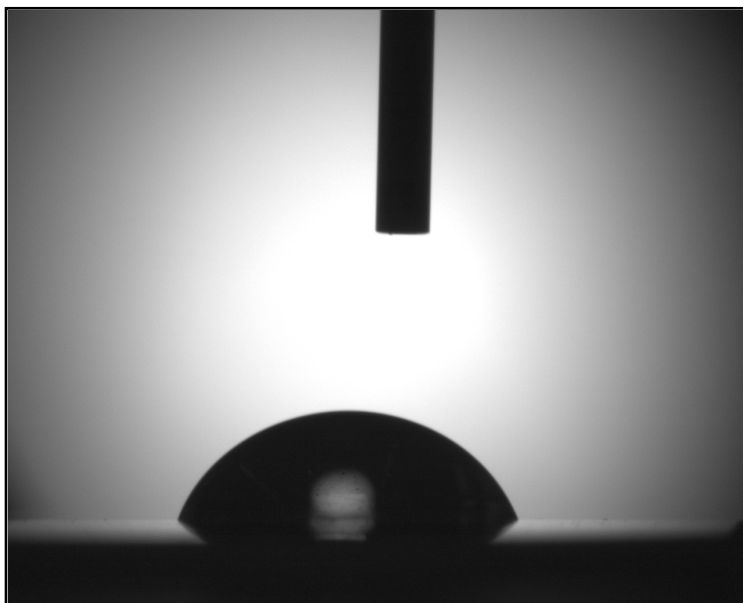
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

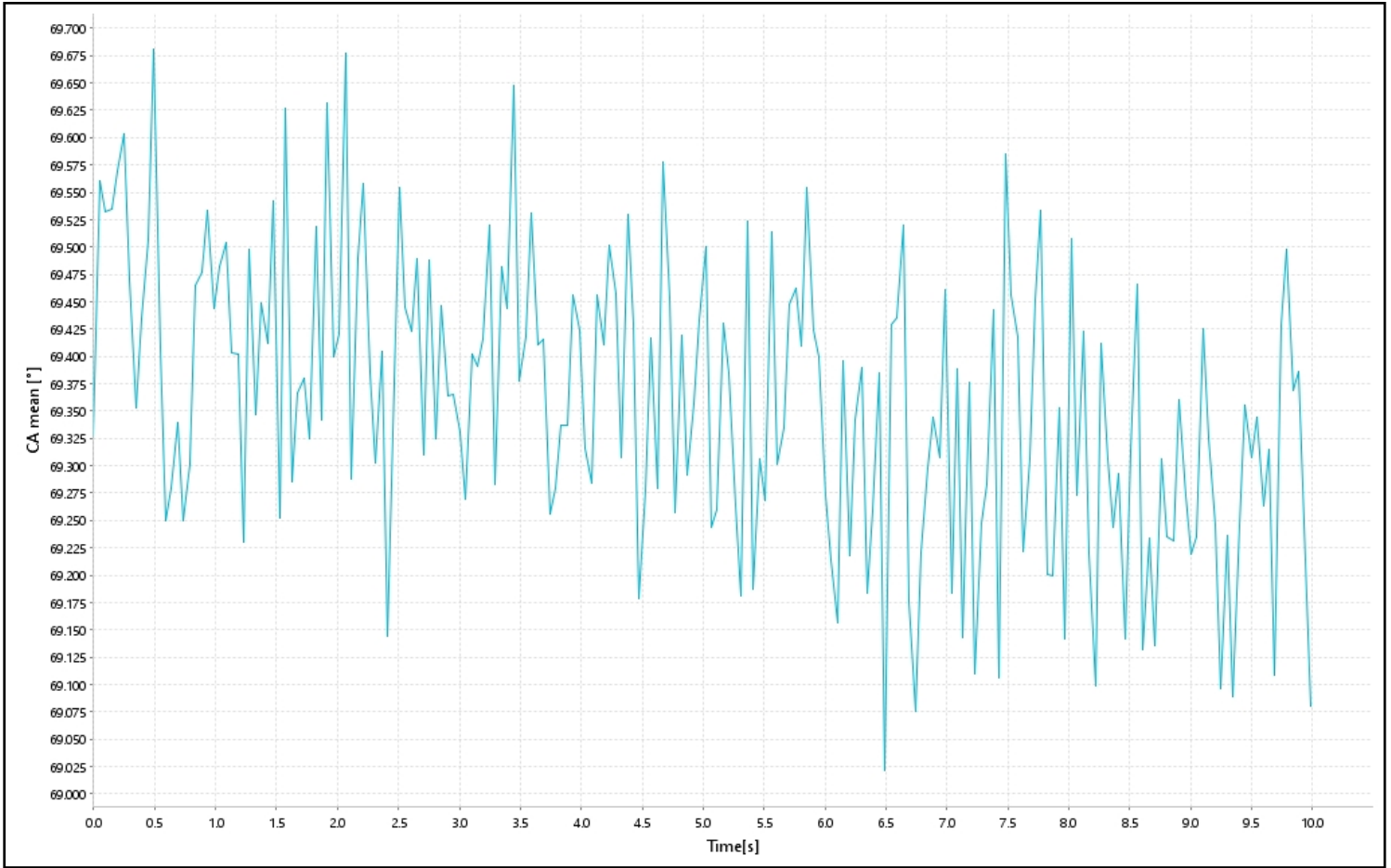
## Heavy phase

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	69.00	69.65	69.33	0.31	1.26
0.05	69.29	69.83	69.56	0.31	1.26
0.10	69.34	69.72	69.53	0.31	1.26
0.15	69.39	69.68	69.53	0.30	1.26
0.20	69.44	69.70	69.57	0.30	1.26
0.25	69.47	69.74	69.60	0.31	1.27
0.30	69.29	69.65	69.47	0.31	1.26
0.34	69.16	69.55	69.35	0.31	1.26
0.39	69.24	69.63	69.43	0.31	1.26
0.44	69.27	69.74	69.51	0.31	1.26
0.49	69.46	69.91	69.68	0.31	1.27
0.54	69.28	69.53	69.41	0.30	1.26
0.59	69.06	69.44	69.25	0.30	1.26
0.64	69.07	69.49	69.28	0.31	1.26
0.69	69.01	69.67	69.34	0.30	1.26
0.74	69.00	69.50	69.25	0.31	1.26
0.79	69.04	69.56	69.30	0.30	1.26
0.84	69.26	69.67	69.47	0.31	1.26
0.89	69.28	69.67	69.48	0.30	1.26
0.93	69.36	69.71	69.53	0.30	1.26
0.98	69.21	69.68	69.44	0.31	1.26
1.03	69.29	69.67	69.48	0.31	1.26
1.08	69.28	69.73	69.50	0.31	1.26
1.13	69.18	69.63	69.40	0.31	1.26
1.18	69.16	69.64	69.40	0.31	1.26
1.23	69.01	69.45	69.23	0.30	1.26
1.28	69.33	69.67	69.50	0.31	1.26
1.33	69.14	69.55	69.35	0.30	1.26
1.38	69.21	69.69	69.45	0.31	1.26
1.43	69.09	69.74	69.41	0.31	1.26
1.48	69.42	69.66	69.54	0.30	1.26
1.53	69.09	69.42	69.25	0.30	1.26
1.57	69.69	69.56	69.63	0.30	1.26
1.62	69.31	69.27	69.29	0.30	1.26
1.67	69.19	69.54	69.37	0.30	1.26
1.72	69.04	69.72	69.38	0.31	1.26

1.77	68.83	69.82	69.32	0.32	1.26
1.82	69.09	69.95	69.52	0.32	1.26
1.87	68.98	69.70	69.34	0.31	1.26
1.92	69.47	69.80	69.63	0.31	1.26
1.97	69.31	69.49	69.40	0.30	1.26
2.02	69.39	69.45	69.42	0.30	1.26
2.07	69.57	69.79	69.68	0.30	1.27
2.12	69.07	69.51	69.29	0.30	1.26
2.16	69.26	69.72	69.49	0.31	1.26
2.21	69.33	69.79	69.56	0.31	1.26
2.26	69.08	69.69	69.39	0.31	1.26
2.31	69.07	69.54	69.30	0.31	1.26
2.36	69.25	69.56	69.40	0.31	1.26
2.41	68.90	69.39	69.14	0.30	1.26
2.46	69.16	69.59	69.38	0.31	1.26
2.51	69.39	69.72	69.55	0.31	1.26
2.56	69.22	69.67	69.45	0.30	1.26
2.61	69.23	69.61	69.42	0.31	1.26
2.66	69.32	69.65	69.49	0.31	1.26
2.71	69.10	69.52	69.31	0.30	1.26
2.76	69.27	69.71	69.49	0.31	1.26
2.80	69.13	69.51	69.32	0.30	1.26
2.85	69.29	69.60	69.45	0.31	1.26
2.90	69.17	69.56	69.36	0.31	1.26
2.95	69.18	69.55	69.36	0.30	1.26
3.00	69.15	69.51	69.33	0.30	1.26
3.05	69.05	69.49	69.27	0.30	1.26
3.10	69.13	69.68	69.40	0.31	1.26
3.15	69.13	69.65	69.39	0.31	1.26
3.20	69.30	69.53	69.42	0.31	1.26
3.25	69.32	69.72	69.52	0.31	1.27
3.30	69.03	69.54	69.28	0.30	1.26
3.35	69.28	69.68	69.48	0.31	1.26
3.40	69.19	69.70	69.44	0.31	1.26
3.44	69.45	69.84	69.65	0.31	1.26
3.49	69.15	69.61	69.38	0.31	1.26
3.54	69.28	69.56	69.42	0.31	1.26
3.59	69.30	69.76	69.53	0.31	1.26
3.64	69.22	69.61	69.41	0.31	1.26
3.69	69.23	69.60	69.42	0.31	1.26
3.74	69.02	69.49	69.26	0.30	1.26
3.79	69.06	69.49	69.28	0.31	1.26
3.84	69.17	69.51	69.34	0.31	1.26
3.89	69.15	69.53	69.34	0.30	1.26
3.94	69.28	69.64	69.46	0.31	1.26
3.99	69.23	69.62	69.42	0.31	1.26
4.03	69.09	69.54	69.32	0.30	1.26
4.08	69.03	69.54	69.28	0.30	1.26
4.13	69.27	69.64	69.46	0.31	1.26
4.18	69.23	69.59	69.41	0.31	1.26
4.23	69.34	69.66	69.50	0.31	1.26
4.28	69.29	69.63	69.46	0.31	1.26
4.33	69.14	69.48	69.31	0.30	1.26
4.38	69.35	69.71	69.53	0.31	1.26
4.43	69.26	69.60	69.43	0.31	1.26
4.48	68.96	69.40	69.18	0.30	1.26
4.53	69.03	69.52	69.28	0.30	1.26
4.58	69.25	69.59	69.42	0.31	1.26
4.63	69.00	69.56	69.28	0.30	1.26
4.67	69.41	69.74	69.58	0.31	1.27
4.72	69.25	69.66	69.45	0.31	1.26
4.77	69.02	69.49	69.26	0.30	1.26
4.82	69.23	69.61	69.42	0.31	1.26
4.87	69.07	69.51	69.29	0.31	1.26
4.92	69.20	69.51	69.36	0.31	1.26
4.97	69.21	69.66	69.43	0.31	1.26
5.02	69.35	69.65	69.50	0.31	1.26
5.07	69.01	69.48	69.24	0.30	1.26
5.12	69.09	69.43	69.26	0.30	1.26
5.17	69.21	69.65	69.43	0.31	1.26
5.22	69.14	69.63	69.38	0.31	1.26
5.26	68.99	69.54	69.26	0.30	1.26

5.31	68.93	69.43	69.18	0.30	1.26
5.36	69.37	69.68	69.52	0.31	1.26
5.41	69.00	69.38	69.19	0.30	1.26
5.46	69.02	69.60	69.31	0.31	1.26
5.51	69.05	69.48	69.27	0.30	1.26
5.56	69.29	69.74	69.51	0.31	1.26
5.61	69.16	69.44	69.30	0.30	1.26
5.66	69.16	69.51	69.33	0.30	1.26
5.71	69.28	69.61	69.45	0.31	1.26
5.76	69.21	69.71	69.46	0.31	1.26
5.81	69.18	69.64	69.41	0.31	1.26
5.86	69.38	69.73	69.55	0.31	1.26
5.90	69.18	69.67	69.42	0.31	1.26
5.95	69.30	69.50	69.40	0.30	1.26
6.00	69.10	69.45	69.27	0.31	1.26
6.05	69.00	69.43	69.21	0.30	1.26
6.10	68.93	69.38	69.16	0.30	1.26
6.15	69.21	69.58	69.40	0.31	1.26
6.20	69.03	69.41	69.22	0.30	1.26
6.25	69.20	69.48	69.34	0.30	1.26
6.30	69.13	69.65	69.39	0.31	1.26
6.35	68.97	69.40	69.18	0.30	1.26
6.40	69.02	69.49	69.26	0.30	1.26
6.45	69.12	69.65	69.38	0.31	1.26
6.50	68.73	69.31	69.02	0.30	1.26
6.54	69.18	69.68	69.43	0.31	1.26
6.59	69.20	69.67	69.43	0.31	1.26
6.64	69.35	69.69	69.52	0.31	1.26
6.69	69.04	69.31	69.18	0.30	1.26
6.74	68.82	69.33	69.08	0.30	1.26
6.79	68.98	69.47	69.22	0.30	1.26
6.84	69.04	69.56	69.30	0.31	1.26
6.89	69.11	69.58	69.34	0.31	1.26
6.94	69.09	69.52	69.31	0.30	1.26
6.99	69.32	69.61	69.46	0.31	1.26
7.04	68.92	69.44	69.18	0.30	1.26
7.09	69.26	69.52	69.39	0.31	1.26
7.13	68.89	69.39	69.14	0.30	1.26
7.18	69.17	69.58	69.38	0.31	1.26
7.23	68.89	69.33	69.11	0.30	1.26
7.28	69.07	69.42	69.25	0.30	1.26
7.33	69.03	69.54	69.28	0.30	1.26
7.38	69.21	69.67	69.44	0.31	1.26
7.43	68.82	69.39	69.11	0.30	1.26
7.48	69.35	69.82	69.58	0.31	1.27
7.53	69.30	69.61	69.46	0.31	1.26
7.58	69.25	69.59	69.42	0.31	1.26
7.63	69.01	69.43	69.22	0.30	1.26
7.68	69.12	69.49	69.31	0.31	1.26
7.72	69.21	69.69	69.45	0.31	1.26
7.77	69.36	69.71	69.53	0.31	1.26
7.82	68.93	69.47	69.20	0.30	1.26
7.87	68.97	69.43	69.20	0.30	1.26
7.92	69.23	69.47	69.35	0.31	1.26
7.97	68.89	69.40	69.14	0.30	1.26
8.02	69.31	69.71	69.51	0.31	1.26
8.07	68.98	69.57	69.27	0.31	1.26
8.12	69.24	69.61	69.42	0.31	1.26
8.17	68.98	69.46	69.22	0.30	1.26
8.22	68.86	69.34	69.10	0.30	1.26
8.27	69.27	69.55	69.41	0.31	1.26
8.32	69.07	69.55	69.31	0.31	1.26
8.36	69.02	69.47	69.24	0.31	1.26
8.41	69.06	69.53	69.29	0.31	1.26
8.46	68.86	69.42	69.14	0.30	1.26
8.51	69.16	69.46	69.31	0.30	1.26
8.56	69.25	69.68	69.47	0.31	1.26
8.61	68.93	69.34	69.13	0.30	1.26
8.66	69.02	69.45	69.23	0.31	1.26
8.71	68.91	69.36	69.14	0.30	1.26
8.76	69.16	69.45	69.31	0.31	1.26
8.81	69.01	69.46	69.23	0.31	1.26

8.86	68.95	69.51	69.23	0.30	1.26
8.91	69.15	69.57	69.36	0.31	1.26
8.96	69.08	69.46	69.27	0.31	1.26
9.00	69.04	69.39	69.22	0.30	1.26
9.05	69.03	69.44	69.24	0.30	1.26
9.10	69.20	69.65	69.43	0.31	1.26
9.15	69.07	69.58	69.33	0.31	1.26
9.20	69.01	69.48	69.25	0.31	1.26
9.25	68.86	69.34	69.10	0.30	1.26
9.30	68.97	69.50	69.24	0.30	1.26
9.35	68.90	69.27	69.09	0.30	1.26
9.40	69.01	69.48	69.25	0.30	1.26
9.45	69.20	69.51	69.36	0.31	1.26
9.50	69.13	69.49	69.31	0.30	1.26
9.55	69.12	69.56	69.34	0.31	1.26
9.59	69.10	69.43	69.26	0.30	1.26
9.64	69.10	69.53	69.32	0.30	1.26
9.69	68.83	69.39	69.11	0.30	1.26
9.74	69.21	69.65	69.43	0.31	1.26
9.79	69.37	69.63	69.50	0.31	1.27
9.84	69.20	69.54	69.37	0.31	1.26
9.89	69.19	69.58	69.39	0.31	1.26
9.94	68.93	69.50	69.21	0.30	1.26
9.99	68.82	69.34	69.08	0.30	1.26