

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:59:03 BST 2023

## Experiment info

Name	csg524 Treated Sample 4 Measurement 1
Type	Contact angle
Date	18-May-2023 15:35

## Solid

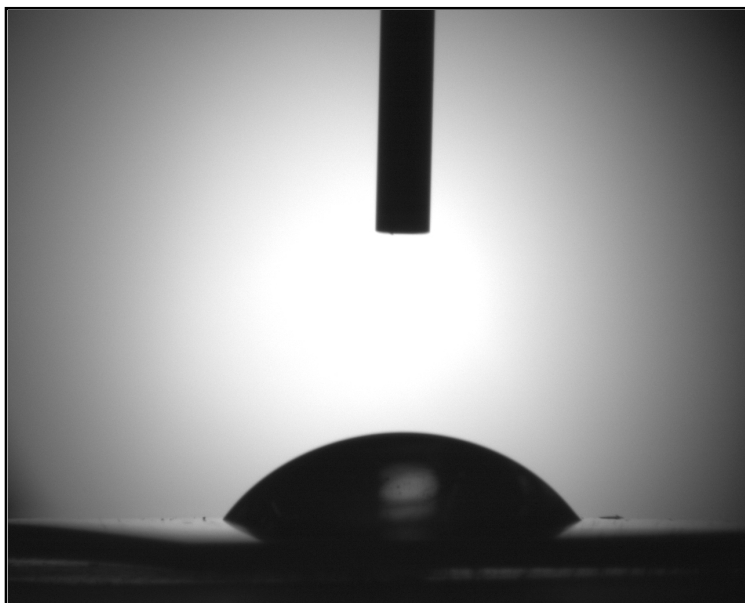
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

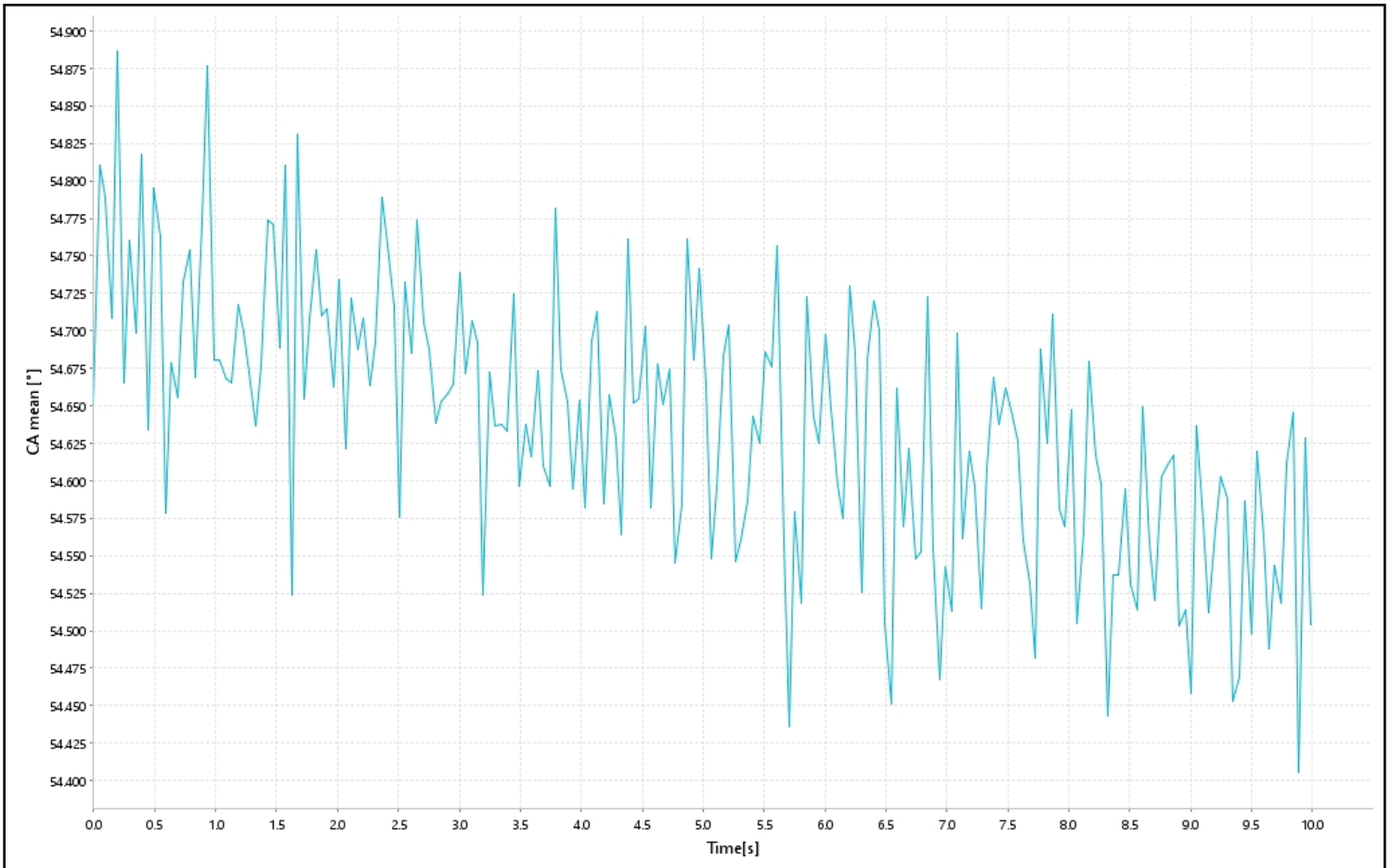
## Heavy phase

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	53.95	55.35	54.65	0.29	1.33
0.05	54.11	55.51	54.81	0.29	1.33
0.10	54.17	55.41	54.79	0.28	1.33
0.15	54.32	55.10	54.71	0.27	1.33
0.20	54.11	55.66	54.89	0.29	1.33
0.25	54.26	55.07	54.67	0.27	1.33
0.30	54.26	55.26	54.76	0.28	1.33
0.34	53.90	55.49	54.70	0.29	1.33
0.39	54.25	55.39	54.82	0.28	1.33
0.44	53.58	55.69	54.63	0.30	1.33
0.49	53.81	55.78	54.80	0.30	1.33
0.54	54.07	55.46	54.76	0.29	1.33
0.59	53.71	55.45	54.58	0.30	1.33
0.64	53.78	55.57	54.68	0.30	1.33
0.69	53.81	55.50	54.66	0.30	1.33
0.74	53.79	55.67	54.73	0.30	1.33
0.79	53.88	55.63	54.75	0.29	1.33
0.84	53.83	55.51	54.67	0.30	1.33
0.89	53.85	55.70	54.77	0.30	1.33
0.94	54.05	55.70	54.88	0.30	1.33
0.98	53.80	55.57	54.68	0.30	1.33
1.03	53.82	55.54	54.68	0.29	1.33
1.08	53.88	55.46	54.67	0.29	1.33
1.13	53.80	55.53	54.66	0.30	1.33
1.18	53.87	55.57	54.72	0.29	1.33
1.23	53.79	55.61	54.70	0.29	1.33
1.28	53.78	55.56	54.67	0.29	1.33
1.33	53.83	55.44	54.64	0.29	1.33
1.38	53.83	55.53	54.68	0.30	1.33
1.43	53.84	55.71	54.77	0.30	1.33
1.48	53.98	55.57	54.77	0.30	1.33
1.53	53.86	55.51	54.69	0.29	1.33
1.57	53.97	55.65	54.81	0.30	1.33
1.62	53.63	55.42	54.52	0.29	1.33
1.67	53.94	55.73	54.83	0.30	1.33
1.72	53.77	55.54	54.65	0.29	1.33

1.77	53.85	55.57	54.71	0.29	1.33
1.82	53.86	55.65	54.75	0.30	1.33
1.87	53.81	55.61	54.71	0.30	1.33
1.92	53.87	55.56	54.71	0.29	1.33
1.97	53.84	55.49	54.66	0.29	1.33
2.02	53.91	55.56	54.73	0.29	1.33
2.07	53.78	55.46	54.62	0.29	1.33
2.12	53.80	55.64	54.72	0.30	1.33
2.16	53.82	55.56	54.69	0.29	1.33
2.21	53.85	55.56	54.71	0.30	1.33
2.26	53.80	55.52	54.66	0.29	1.33
2.31	53.91	55.48	54.69	0.30	1.33
2.36	53.90	55.68	54.79	0.30	1.33
2.41	53.91	55.60	54.76	0.29	1.33
2.46	53.90	55.54	54.72	0.30	1.33
2.51	53.79	55.37	54.58	0.29	1.33
2.56	53.94	55.53	54.73	0.29	1.33
2.61	53.94	55.43	54.69	0.29	1.33
2.66	53.97	55.57	54.77	0.29	1.33
2.71	53.82	55.59	54.71	0.30	1.33
2.76	53.87	55.50	54.69	0.30	1.33
2.80	53.75	55.53	54.64	0.29	1.33
2.85	53.80	55.51	54.65	0.30	1.33
2.90	53.80	55.52	54.66	0.29	1.33
2.95	53.82	55.50	54.66	0.30	1.33
3.00	53.86	55.62	54.74	0.30	1.33
3.05	53.79	55.56	54.67	0.29	1.33
3.10	53.78	55.63	54.71	0.30	1.33
3.15	53.83	55.55	54.69	0.29	1.33
3.20	53.67	55.38	54.52	0.29	1.33
3.25	53.89	55.46	54.67	0.30	1.33
3.30	53.81	55.47	54.64	0.29	1.33
3.35	53.80	55.47	54.64	0.30	1.33
3.40	53.82	55.45	54.63	0.29	1.33
3.44	53.87	55.57	54.72	0.30	1.33
3.49	53.75	55.44	54.60	0.29	1.33
3.54	53.79	55.49	54.64	0.29	1.33
3.59	53.73	55.50	54.62	0.30	1.33
3.64	53.86	55.48	54.67	0.29	1.33
3.69	53.77	55.45	54.61	0.29	1.33
3.74	53.77	55.42	54.60	0.29	1.33
3.79	53.89	55.67	54.78	0.30	1.33
3.84	53.82	55.53	54.67	0.30	1.33
3.89	53.79	55.52	54.65	0.30	1.33
3.94	53.80	55.39	54.59	0.30	1.33
3.99	53.71	55.59	54.65	0.29	1.33
4.03	53.68	55.49	54.58	0.29	1.33
4.08	53.83	55.55	54.69	0.30	1.33
4.13	53.89	55.53	54.71	0.29	1.33
4.18	53.69	55.48	54.58	0.29	1.33
4.23	53.77	55.54	54.66	0.29	1.33
4.28	53.82	55.44	54.63	0.29	1.33
4.33	53.61	55.51	54.56	0.29	1.33
4.38	53.87	55.65	54.76	0.29	1.33
4.43	53.76	55.55	54.65	0.29	1.33
4.48	53.85	55.46	54.65	0.29	1.33
4.53	53.85	55.56	54.70	0.30	1.33
4.58	53.65	55.51	54.58	0.29	1.33
4.63	53.84	55.51	54.68	0.30	1.33
4.67	53.84	55.46	54.65	0.30	1.33
4.72	53.81	55.54	54.67	0.30	1.33
4.77	53.68	55.41	54.55	0.30	1.33
4.82	53.72	55.45	54.58	0.29	1.33
4.87	53.89	55.63	54.76	0.30	1.33
4.92	53.80	55.56	54.68	0.29	1.33
4.97	53.91	55.57	54.74	0.30	1.33
5.02	53.83	55.50	54.66	0.29	1.33
5.07	53.65	55.44	54.55	0.30	1.33
5.12	53.73	55.46	54.59	0.29	1.33
5.17	53.87	55.50	54.68	0.30	1.33
5.22	53.81	55.60	54.70	0.30	1.33
5.26	53.61	55.49	54.55	0.30	1.33

5.31	53.73	55.40	54.56	0.29	1.33
5.36	53.76	55.42	54.59	0.30	1.33
5.41	53.72	55.56	54.64	0.29	1.33
5.46	53.77	55.48	54.62	0.30	1.33
5.51	53.78	55.59	54.69	0.29	1.33
5.56	53.83	55.52	54.68	0.29	1.33
5.61	53.93	55.58	54.76	0.30	1.33
5.66	53.74	55.38	54.56	0.29	1.33
5.71	53.59	55.29	54.44	0.29	1.33
5.76	53.72	55.44	54.58	0.29	1.33
5.81	53.73	55.31	54.52	0.29	1.33
5.86	53.87	55.57	54.72	0.30	1.33
5.90	53.79	55.50	54.64	0.29	1.33
5.95	53.79	55.46	54.63	0.29	1.33
6.00	53.76	55.64	54.70	0.30	1.33
6.05	53.77	55.53	54.65	0.30	1.33
6.10	53.73	55.47	54.60	0.30	1.33
6.15	53.70	55.45	54.57	0.29	1.33
6.20	53.85	55.61	54.73	0.30	1.33
6.25	53.85	55.52	54.68	0.30	1.33
6.30	53.63	55.42	54.53	0.29	1.33
6.35	54.67	54.69	54.68	0.25	1.33
6.40	53.82	55.62	54.72	0.30	1.33
6.45	53.81	55.59	54.70	0.30	1.33
6.49	53.68	55.33	54.50	0.29	1.33
6.54	53.57	55.34	54.45	0.29	1.33
6.59	53.84	55.48	54.66	0.29	1.33
6.64	53.65	55.49	54.57	0.29	1.33
6.69	53.75	55.49	54.62	0.30	1.33
6.74	53.69	55.40	54.55	0.29	1.33
6.79	53.68	55.42	54.55	0.29	1.33
6.84	53.91	55.53	54.72	0.30	1.33
6.89	53.64	55.47	54.56	0.30	1.33
6.94	53.59	55.35	54.47	0.29	1.33
6.99	53.66	55.42	54.54	0.29	1.33
7.04	53.68	55.35	54.51	0.29	1.33
7.09	53.78	55.62	54.70	0.30	1.33
7.13	53.71	55.41	54.56	0.29	1.33
7.18	53.71	55.52	54.62	0.29	1.33
7.23	53.71	55.48	54.60	0.30	1.33
7.28	53.65	55.38	54.52	0.29	1.33
7.33	53.79	55.43	54.61	0.30	1.33
7.38	53.80	55.54	54.67	0.30	1.33
7.43	53.77	55.51	54.64	0.29	1.33
7.48	53.77	55.56	54.66	0.29	1.33
7.53	53.77	55.52	54.65	0.29	1.33
7.58	53.76	55.49	54.63	0.30	1.33
7.63	53.69	55.44	54.56	0.29	1.33
7.68	53.74	55.33	54.53	0.29	1.33
7.73	53.57	55.40	54.48	0.29	1.33
7.77	53.84	55.54	54.69	0.29	1.33
7.82	53.75	55.50	54.62	0.30	1.33
7.87	53.84	55.58	54.71	0.30	1.33
7.92	53.77	55.39	54.58	0.30	1.33
7.97	53.68	55.46	54.57	0.30	1.33
8.02	53.73	55.56	54.65	0.30	1.33
8.07	53.59	55.42	54.50	0.29	1.33
8.12	53.75	55.38	54.56	0.29	1.33
8.17	53.82	55.54	54.68	0.30	1.33
8.22	53.72	55.52	54.62	0.29	1.33
8.27	53.70	55.49	54.60	0.30	1.33
8.32	53.57	55.31	54.44	0.29	1.33
8.36	53.68	55.39	54.54	0.29	1.33
8.41	53.66	55.41	54.54	0.29	1.33
8.46	53.78	55.41	54.59	0.29	1.33
8.51	53.75	55.31	54.53	0.29	1.33
8.56	53.62	55.41	54.51	0.29	1.33
8.61	53.82	55.48	54.65	0.29	1.33
8.66	53.68	55.44	54.56	0.29	1.33
8.71	53.63	55.41	54.52	0.29	1.33
8.76	53.74	55.46	54.60	0.29	1.33
8.81	53.71	55.51	54.61	0.30	1.33

8.86	53.81	55.42	54.62	0.29	1.33
8.91	53.58	55.43	54.50	0.29	1.33
8.96	53.62	55.41	54.51	0.30	1.33
9.00	53.62	55.29	54.46	0.29	1.33
9.05	53.81	55.46	54.64	0.29	1.33
9.10	53.72	55.42	54.57	0.30	1.33
9.15	53.69	55.33	54.51	0.29	1.33
9.20	53.76	55.38	54.57	0.29	1.33
9.25	53.75	55.45	54.60	0.29	1.33
9.30	53.72	55.45	54.59	0.29	1.33
9.35	53.65	55.26	54.45	0.29	1.33
9.40	53.65	55.29	54.47	0.29	1.33
9.45	53.75	55.43	54.59	0.29	1.33
9.50	53.63	55.36	54.50	0.29	1.33
9.55	53.81	55.43	54.62	0.29	1.33
9.59	53.67	55.46	54.56	0.29	1.33
9.64	53.62	55.36	54.49	0.29	1.33
9.69	53.71	55.38	54.54	0.29	1.33
9.74	53.59	55.45	54.52	0.29	1.33
9.79	53.70	55.52	54.61	0.29	1.33
9.84	53.78	55.51	54.65	0.30	1.33
9.89	53.57	55.24	54.41	0.29	1.33
9.94	53.76	55.50	54.63	0.29	1.33
9.99	53.65	55.36	54.50	0.29	1.33