

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:01 BST 2023

## Experiment info

Name	csg524 Treated Sample 2 Measurement 1
Type	Contact angle
Date	18-May-2023 14:37

## Solid

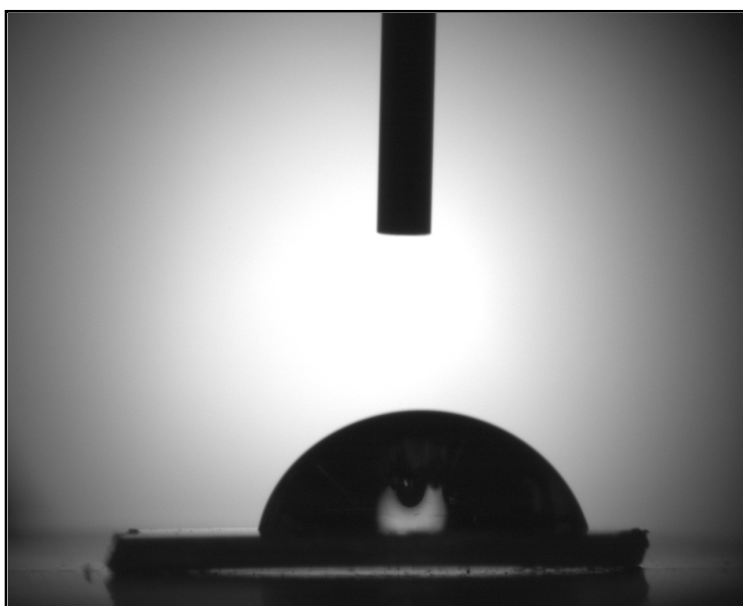
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

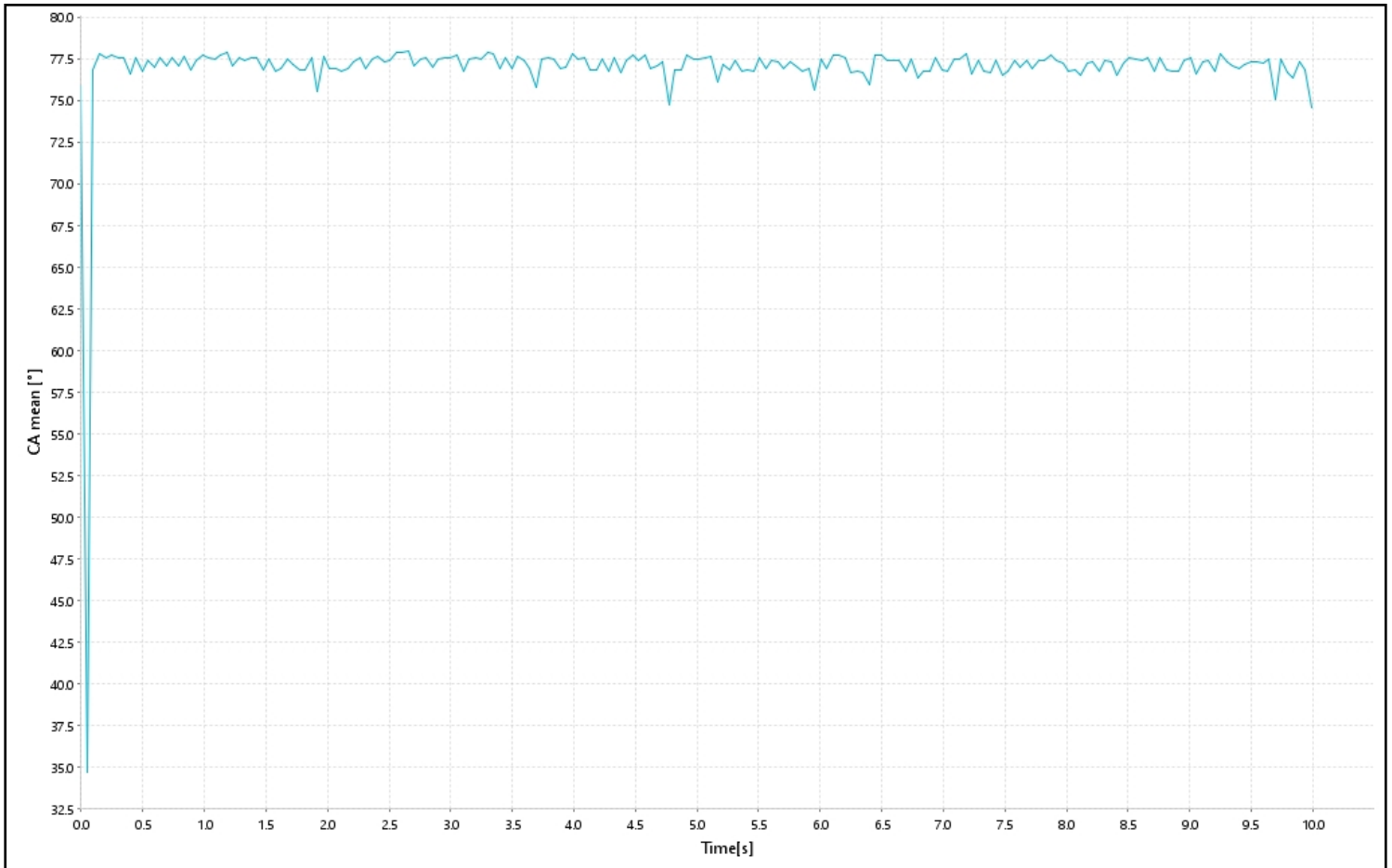
## Heavy phase

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	77.39	74.37	75.88	0.27	1.22
0.05	33.24	36.09	34.66		0.98
0.10	78.66	75.02	76.84	0.27	1.23
0.15	79.62	75.94	77.78	0.28	1.23
0.20	79.47	75.61	77.54	0.28	1.23
0.25	79.65	75.72	77.69	0.28	1.23
0.30	79.39	75.71	77.55	0.28	1.23
0.34	79.36	75.72	77.54	0.28	1.23
0.39	78.43	74.81	76.62	0.27	1.23
0.44	79.54	75.66	77.60	0.28	1.23
0.49	78.52	75.06	76.79	0.28	1.23
0.54	79.25	75.62	77.43	0.28	1.23
0.59	78.71	75.24	76.98	0.28	1.23
0.64	79.46	75.61	77.53	0.28	1.23
0.69	78.91	75.30	77.10	0.28	1.23
0.74	79.47	75.59	77.53	0.28	1.23
0.79	78.87	75.23	77.05	0.28	1.23
0.84	79.50	75.85	77.68	0.28	1.23
0.89	78.47	75.12	76.80	0.28	1.23
0.93	79.36	75.45	77.40	0.28	1.23
0.98	79.55	75.88	77.71	0.28	1.23
1.03	79.48	75.62	77.55	0.28	1.23
1.08	79.40	75.56	77.48	0.28	1.23
1.13	79.66	75.71	77.69	0.28	1.23
1.18	79.85	75.89	77.87	0.28	1.23
1.23	78.81	75.36	77.09	0.28	1.23
1.28	79.46	75.62	77.54	0.28	1.23
1.33	79.39	75.46	77.43	0.28	1.23
1.38	79.36	75.74	77.55	0.28	1.23
1.43	79.52	75.55	77.54	0.28	1.23
1.48	78.58	75.12	76.85	0.27	1.23
1.53	79.37	75.54	77.45	0.28	1.23
1.57	78.45	75.00	76.72	0.28	1.23
1.62	78.66	75.13	76.90	0.28	1.23
1.67	79.37	75.56	77.47	0.28	1.23
1.72	78.90	75.35	77.12	0.28	1.23

1.77	78.66	75.08	76.87	0.28	1.23
1.82	78.54	75.20	76.87	0.28	1.23
1.87	79.53	75.60	77.56	0.28	1.23
1.92	77.65	73.38	75.52	0.26	1.22
1.97	79.49	75.73	77.61	0.28	1.23
2.02	78.60	75.16	76.88	0.28	1.23
2.07	78.66	75.12	76.89	0.28	1.23
2.12	78.51	75.05	76.78	0.28	1.23
2.17	78.69	75.22	76.95	0.28	1.23
2.21	79.14	75.42	77.28	0.28	1.23
2.26	79.50	75.70	77.60	0.28	1.23
2.31	78.54	75.31	76.93	0.28	1.23
2.36	79.34	75.62	77.48	0.28	1.23
2.41	79.50	75.75	77.62	0.28	1.23
2.46	79.24	75.48	77.36	0.28	1.23
2.51	79.36	75.51	77.43	0.28	1.23
2.56	79.71	75.98	77.85	0.28	1.23
2.61	79.79	75.98	77.88	0.28	1.23
2.66	79.87	76.01	77.94	0.28	1.23
2.71	78.80	75.34	77.07	0.28	1.23
2.76	79.40	75.55	77.47	0.28	1.23
2.80	79.51	75.58	77.55	0.28	1.23
2.85	78.77	75.17	76.97	0.28	1.23
2.90	79.42	75.52	77.47	0.28	1.23
2.95	79.42	75.75	77.58	0.28	1.23
3.00	79.52	75.59	77.55	0.28	1.23
3.05	79.73	75.78	77.75	0.28	1.23
3.10	78.48	75.01	76.74	0.28	1.23
3.15	79.35	75.55	77.45	0.28	1.23
3.20	79.44	75.69	77.57	0.28	1.23
3.25	79.51	75.45	77.48	0.28	1.23
3.30	79.81	75.96	77.89	0.28	1.23
3.35	79.76	75.89	77.82	0.28	1.23
3.40	78.62	75.22	76.92	0.28	1.23
3.44	79.47	75.67	77.57	0.28	1.23
3.49	78.64	75.14	76.89	0.28	1.23
3.54	79.54	75.78	77.66	0.28	1.23
3.59	79.35	75.45	77.40	0.28	1.23
3.64	78.60	75.22	76.91	0.28	1.23
3.69	77.28	74.29	75.78	0.27	1.22
3.74	79.46	75.57	77.52	0.28	1.23
3.79	79.48	75.61	77.54	0.28	1.23
3.84	79.44	75.52	77.48	0.28	1.23
3.89	78.79	75.10	76.95	0.28	1.23
3.94	78.72	75.22	76.97	0.28	1.23
3.99	79.66	75.95	77.81	0.28	1.23
4.03	79.36	75.60	77.48	0.28	1.23
4.08	79.48	75.67	77.58	0.28	1.23
4.13	78.55	75.17	76.86	0.28	1.23
4.18	78.63	75.05	76.84	0.27	1.23
4.23	79.42	75.58	77.50	0.28	1.23
4.28	78.52	75.07	76.79	0.27	1.23
4.33	79.41	75.76	77.58	0.28	1.23
4.38	78.41	74.91	76.66	0.27	1.23
4.43	79.29	75.49	77.39	0.28	1.23
4.48	79.61	75.78	77.69	0.28	1.23
4.53	79.35	75.51	77.43	0.28	1.23
4.58	79.64	75.76	77.70	0.28	1.23
4.63	78.63	75.28	76.95	0.28	1.23
4.67	78.77	75.38	77.08	0.28	1.23
4.72	79.25	75.36	77.31	0.28	1.23
4.77	77.08	72.35	74.71	0.26	1.21
4.82	78.59	75.07	76.83	0.28	1.23
4.87	78.66	75.10	76.88	0.27	1.23
4.92	79.65	75.86	77.76	0.28	1.23
4.97	79.43	75.57	77.50	0.28	1.23
5.02	79.46	75.43	77.45	0.28	1.23
5.07	79.50	75.62	77.56	0.28	1.23
5.12	79.59	75.77	77.68	0.28	1.23
5.17	77.55	74.66	76.10	0.27	1.23
5.22	78.85	75.48	77.16	0.28	1.23
5.26	78.49	75.15	76.82	0.28	1.23

5.31	79.28	75.49	77.38	0.28	1.23
5.36	78.43	75.09	76.76	0.28	1.23
5.41	78.60	75.03	76.82	0.27	1.23
5.46	78.50	75.01	76.76	0.27	1.23
5.51	79.46	75.66	77.56	0.28	1.23
5.56	78.58	75.28	76.93	0.28	1.23
5.61	79.33	75.45	77.39	0.28	1.23
5.66	79.26	75.40	77.33	0.28	1.23
5.71	78.62	75.19	76.90	0.28	1.23
5.76	79.24	75.36	77.30	0.28	1.23
5.81	78.75	75.34	77.05	0.28	1.23
5.86	78.58	74.97	76.78	0.27	1.23
5.90	78.79	75.01	76.90	0.27	1.23
5.95	77.14	74.13	75.63	0.26	1.22
6.00	79.41	75.59	77.50	0.28	1.23
6.05	78.59	75.30	76.94	0.28	1.23
6.10	79.58	75.81	77.69	0.28	1.23
6.15	79.56	75.89	77.73	0.28	1.23
6.20	79.37	75.72	77.55	0.28	1.23
6.25	78.33	74.98	76.66	0.28	1.23
6.30	78.50	74.96	76.73	0.27	1.23
6.35	78.45	74.85	76.65	0.27	1.23
6.40	78.23	73.72	75.97	0.27	1.22
6.45	79.63	75.88	77.75	0.28	1.23
6.50	79.57	75.82	77.70	0.28	1.23
6.54	79.32	75.48	77.40	0.28	1.23
6.59	79.30	75.48	77.39	0.28	1.23
6.64	79.30	75.44	77.37	0.28	1.23
6.69	78.28	75.16	76.72	0.28	1.23
6.74	79.34	75.60	77.47	0.28	1.23
6.79	77.93	74.86	76.39	0.28	1.23
6.84	78.47	75.11	76.79	0.28	1.23
6.89	78.53	74.96	76.75	0.27	1.23
6.94	79.49	75.59	77.54	0.28	1.23
6.99	78.52	75.09	76.80	0.27	1.23
7.04	78.38	75.09	76.74	0.28	1.23
7.09	79.40	75.64	77.52	0.28	1.23
7.13	79.38	75.60	77.49	0.28	1.23
7.18	79.71	75.84	77.77	0.28	1.23
7.23	78.37	74.85	76.61	0.27	1.23
7.28	79.42	75.34	77.38	0.28	1.23
7.33	78.50	75.08	76.79	0.28	1.23
7.38	78.38	75.04	76.71	0.27	1.23
7.43	79.35	75.41	77.38	0.28	1.23
7.48	78.23	74.88	76.55	0.27	1.23
7.53	78.48	75.11	76.79	0.28	1.23
7.58	79.37	75.42	77.40	0.28	1.23
7.63	78.68	75.24	76.96	0.28	1.23
7.68	79.32	75.50	77.41	0.28	1.23
7.73	78.58	75.23	76.91	0.28	1.23
7.77	79.25	75.50	77.38	0.28	1.23
7.82	79.41	75.45	77.43	0.28	1.23
7.87	79.69	75.70	77.70	0.28	1.23
7.92	79.27	75.52	77.39	0.28	1.23
7.97	79.11	75.43	77.27	0.28	1.23
8.02	78.49	75.03	76.76	0.27	1.23
8.07	78.50	75.21	76.86	0.28	1.23
8.12	78.17	74.84	76.51	0.27	1.23
8.17	79.21	75.24	77.22	0.28	1.23
8.22	79.30	75.34	77.32	0.28	1.23
8.27	78.41	75.11	76.76	0.28	1.23
8.32	79.26	75.57	77.42	0.28	1.23
8.36	79.24	75.32	77.28	0.28	1.23
8.41	78.15	74.87	76.51	0.28	1.23
8.46	79.17	75.33	77.25	0.28	1.23
8.51	79.62	75.57	77.59	0.28	1.23
8.56	79.41	75.52	77.47	0.28	1.23
8.61	79.33	75.46	77.39	0.28	1.23
8.66	79.45	75.63	77.54	0.28	1.23
8.71	78.51	74.96	76.73	0.28	1.23
8.76	79.49	75.68	77.58	0.28	1.23
8.81	78.48	75.13	76.80	0.28	1.23

8.86	78.51	75.03	76.77	0.28	1.23
8.91	78.47	75.04	76.76	0.28	1.23
8.96	79.32	75.43	77.37	0.28	1.23
9.00	79.51	75.55	77.53	0.28	1.23
9.05	78.20	75.04	76.62	0.28	1.23
9.10	79.10	75.55	77.32	0.28	1.23
9.15	79.36	75.48	77.42	0.28	1.23
9.20	78.46	75.12	76.79	0.28	1.23
9.25	79.69	75.90	77.79	0.28	1.23
9.30	79.30	75.41	77.35	0.28	1.23
9.35	78.96	75.12	77.04	0.28	1.23
9.40	78.65	75.20	76.92	0.28	1.23
9.45	79.19	75.21	77.20	0.28	1.23
9.50	79.20	75.40	77.30	0.28	1.23
9.55	79.27	75.40	77.33	0.28	1.23
9.59	79.17	75.36	77.27	0.28	1.23
9.64	79.32	75.61	77.46	0.28	1.23
9.69	77.44	72.74	75.09	0.26	1.21
9.74	79.54	75.45	77.49	0.28	1.23
9.79	78.35	74.99	76.67	0.27	1.23
9.84	77.92	74.78	76.35	0.27	1.23
9.89	79.15	75.49	77.32	0.28	1.23
9.94	78.56	75.14	76.85	0.28	1.23
9.99	76.66	72.51	74.58	0.26	1.21