

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:32 BST 2023

## Experiment info

Name	csg524 Treated Sample 3 Measurement 1
Type	Contact angle
Date	18-May-2023 15:01

## Solid

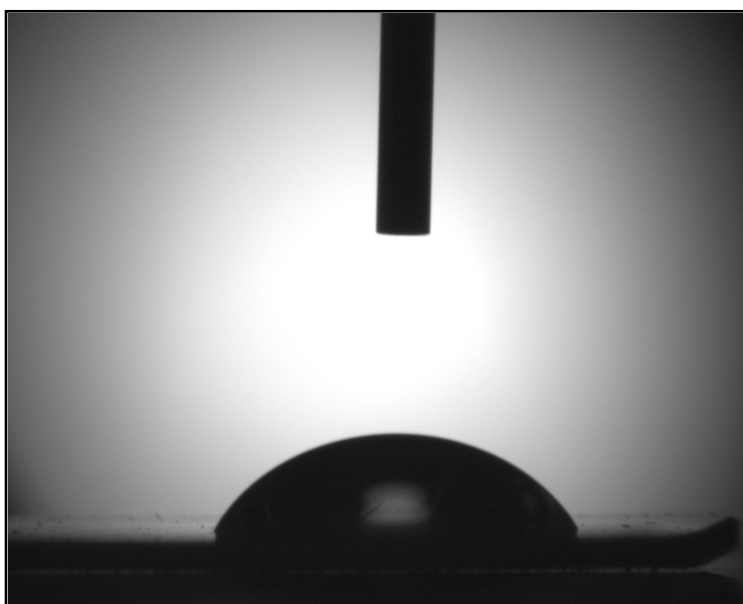
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

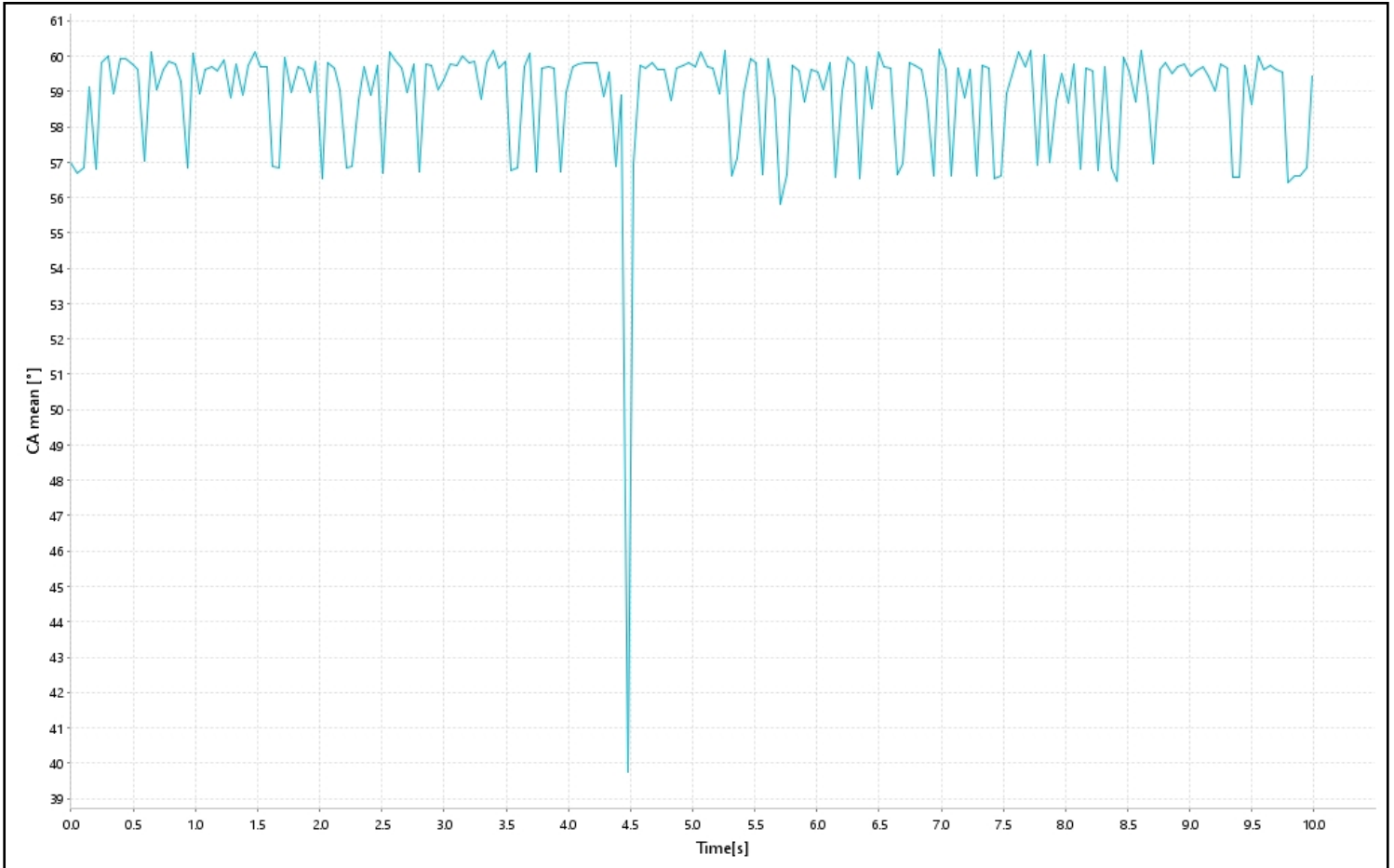
## Heavy phase

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	57.68	56.33	57.00	0.26	1.32
0.05	57.55	55.80	56.67	0.25	1.31
0.10	57.72	55.95	56.83	0.25	1.31
0.15	59.55	58.75	59.15	0.28	1.34
0.20	57.67	55.94	56.80	0.25	1.31
0.25	59.92	59.71	59.81	0.29	1.35
0.30	60.08	59.92	60.00	0.29	1.35
0.34	59.22	58.67	58.94	0.28	1.34
0.39	60.10	59.73	59.91	0.29	1.35
0.44	60.07	59.75	59.91	0.29	1.35
0.49	59.88	59.66	59.77	0.29	1.35
0.54	59.92	59.36	59.64	0.28	1.35
0.59	57.90	56.17	57.03	0.25	1.32
0.64	60.20	60.04	60.12	0.29	1.35
0.69	59.33	58.75	59.04	0.28	1.34
0.74	59.71	59.54	59.62	0.29	1.35
0.79	59.97	59.75	59.86	0.29	1.35
0.84	59.91	59.64	59.78	0.29	1.35
0.89	59.99	58.55	59.27	0.27	1.34
0.93	57.94	55.74	56.84	0.24	1.31
0.98	60.16	60.02	60.09	0.29	1.35
1.03	59.13	58.75	58.94	0.28	1.34
1.08	59.56	59.66	59.61	0.29	1.35
1.13	59.75	59.61	59.68	0.29	1.35
1.18	59.81	59.36	59.59	0.28	1.35
1.23	60.08	59.73	59.91	0.28	1.35
1.28	59.29	58.38	58.83	0.28	1.34
1.33	59.98	59.59	59.78	0.28	1.35
1.38	59.33	58.44	58.88	0.27	1.34
1.43	59.79	59.67	59.73	0.29	1.35
1.48	60.10	60.15	60.12	0.29	1.35
1.53	59.79	59.58	59.69	0.29	1.35
1.57	59.83	59.57	59.70	0.29	1.35
1.62	57.67	56.06	56.87	0.25	1.32
1.67	57.62	56.07	56.85	0.25	1.32
1.72	60.04	59.87	59.95	0.29	1.35

1.77	59.33	58.63	58.98	0.28	1.34
1.82	59.97	59.44	59.71	0.28	1.35
1.87	59.72	59.55	59.64	0.29	1.35
1.92	59.34	58.63	58.99	0.28	1.34
1.97	60.08	59.61	59.85	0.29	1.35
2.02	57.46	55.62	56.54	0.25	1.31
2.07	60.02	59.62	59.82	0.29	1.35
2.12	59.79	59.50	59.65	0.29	1.35
2.16	59.38	58.75	59.06	0.28	1.34
2.21	57.65	56.06	56.85	0.25	1.31
2.26	57.76	55.99	56.88	0.25	1.32
2.31	59.08	58.38	58.73	0.27	1.34
2.36	59.94	59.44	59.69	0.29	1.35
2.41	59.35	58.49	58.92	0.28	1.34
2.46	59.86	59.59	59.72	0.28	1.35
2.51	57.58	55.77	56.68	0.25	1.31
2.56	60.15	60.11	60.13	0.29	1.35
2.61	60.07	59.75	59.91	0.29	1.35
2.66	59.80	59.53	59.67	0.29	1.35
2.71	59.34	58.61	58.98	0.28	1.34
2.76	59.99	59.59	59.79	0.29	1.35
2.80	57.61	55.81	56.71	0.25	1.31
2.85	59.93	59.61	59.77	0.29	1.35
2.90	59.85	59.59	59.72	0.29	1.35
2.95	59.39	58.70	59.04	0.28	1.34
3.00	59.58	59.04	59.31	0.28	1.34
3.05	59.97	59.55	59.76	0.29	1.35
3.10	59.93	59.56	59.74	0.29	1.35
3.15	60.12	59.88	60.00	0.29	1.35
3.20	59.94	59.67	59.80	0.29	1.35
3.25	60.05	59.65	59.85	0.29	1.35
3.30	59.26	58.29	58.77	0.27	1.34
3.35	59.95	59.67	59.81	0.29	1.35
3.40	60.29	60.04	60.16	0.29	1.35
3.44	59.87	59.48	59.67	0.28	1.35
3.49	60.03	59.67	59.85	0.29	1.35
3.54	57.57	55.94	56.76	0.25	1.31
3.59	57.71	55.95	56.83	0.25	1.32
3.64	59.94	59.42	59.68	0.29	1.35
3.69	60.16	60.00	60.08	0.29	1.35
3.74	57.58	55.87	56.72	0.25	1.31
3.79	59.84	59.50	59.67	0.28	1.35
3.84	59.89	59.52	59.71	0.28	1.35
3.89	59.81	59.47	59.64	0.28	1.35
3.94	57.56	55.89	56.72	0.25	1.31
3.99	59.28	58.63	58.96	0.28	1.34
4.03	59.94	59.46	59.70	0.28	1.35
4.08	59.90	59.68	59.79	0.29	1.35
4.13	59.92	59.71	59.82	0.29	1.35
4.18	60.01	59.58	59.79	0.29	1.35
4.23	59.96	59.67	59.81	0.29	1.35
4.28	59.25	58.45	58.85	0.28	1.34
4.33	59.74	59.37	59.55	0.28	1.35
4.38	57.75	56.04	56.90	0.25	1.32
4.43	59.32	58.47	58.90	0.28	1.34
4.48	42.64	36.82	39.73	0.10	1.00
4.53	57.77	56.09	56.93	0.25	1.32
4.58	59.92	59.59	59.75	0.29	1.35
4.63	59.82	59.52	59.67	0.29	1.35
4.67	59.90	59.74	59.82	0.29	1.35
4.72	59.81	59.43	59.62	0.29	1.35
4.77	59.89	59.35	59.62	0.28	1.35
4.82	59.05	58.43	58.74	0.27	1.34
4.87	59.94	59.37	59.66	0.28	1.35
4.92	59.93	59.54	59.74	0.29	1.35
4.97	60.03	59.61	59.82	0.29	1.35
5.02	59.90	59.51	59.70	0.28	1.35
5.07	60.19	60.05	60.12	0.29	1.35
5.12	59.90	59.50	59.70	0.28	1.35
5.17	59.80	59.55	59.67	0.29	1.35
5.22	59.37	58.47	58.92	0.28	1.34
5.26	60.21	60.08	60.14	0.29	1.35

5.31	57.50	55.75	56.62	0.25	1.31
5.36	57.93	56.29	57.11	0.25	1.32
5.41	59.27	58.65	58.96	0.28	1.34
5.46	60.02	59.83	59.92	0.29	1.35
5.51	59.92	59.70	59.81	0.29	1.35
5.56	57.56	55.75	56.65	0.25	1.31
5.61	60.09	59.76	59.93	0.29	1.35
5.66	59.19	58.40	58.80	0.27	1.34
5.71	56.93	54.68	55.80	0.24	1.30
5.76	57.58	55.71	56.64	0.25	1.31
5.81	60.00	59.51	59.75	0.29	1.35
5.86	59.83	59.36	59.59	0.28	1.35
5.90	59.11	58.32	58.71	0.27	1.34
5.95	59.76	59.47	59.61	0.29	1.35
6.00	59.79	59.31	59.55	0.28	1.35
6.05	59.48	58.61	59.04	0.28	1.34
6.10	60.02	59.59	59.81	0.29	1.35
6.15	57.52	55.66	56.59	0.25	1.31
6.20	59.38	58.64	59.01	0.28	1.34
6.25	60.12	59.80	59.96	0.29	1.35
6.30	60.00	59.58	59.79	0.29	1.35
6.35	57.46	55.59	56.53	0.25	1.31
6.40	59.88	59.50	59.69	0.29	1.35
6.45	59.08	57.99	58.53	0.27	1.34
6.49	60.16	60.06	60.11	0.29	1.35
6.54	59.88	59.48	59.68	0.29	1.35
6.59	59.89	59.42	59.65	0.28	1.35
6.64	57.57	55.73	56.65	0.25	1.31
6.69	57.75	56.15	56.95	0.25	1.32
6.74	60.00	59.66	59.83	0.29	1.35
6.79	59.94	59.56	59.75	0.28	1.35
6.84	59.82	59.42	59.62	0.29	1.35
6.89	59.18	58.29	58.73	0.27	1.34
6.94	57.52	55.67	56.60	0.25	1.31
6.99	60.27	60.09	60.18	0.29	1.35
7.04	59.82	59.43	59.63	0.28	1.35
7.09	57.54	55.68	56.61	0.25	1.31
7.13	59.81	59.51	59.66	0.29	1.35
7.18	59.18	58.48	58.83	0.27	1.34
7.23	59.87	59.35	59.61	0.28	1.35
7.28	57.56	55.69	56.62	0.25	1.31
7.33	59.98	59.47	59.72	0.29	1.35
7.38	59.87	59.44	59.65	0.28	1.35
7.43	57.47	55.60	56.54	0.25	1.31
7.48	57.54	55.71	56.62	0.25	1.31
7.53	59.28	58.60	58.94	0.28	1.34
7.58	59.75	59.44	59.60	0.29	1.35
7.63	60.20	60.05	60.12	0.29	1.35
7.68	59.94	59.42	59.68	0.29	1.35
7.73	60.26	60.06	60.16	0.29	1.35
7.77	57.71	56.14	56.92	0.25	1.32
7.82	60.05	60.04	60.05	0.29	1.35
7.87	57.80	56.22	57.01	0.25	1.32
7.92	59.11	58.35	58.73	0.27	1.34
7.97	59.73	59.28	59.51	0.28	1.35
8.02	59.14	58.22	58.68	0.27	1.34
8.07	59.95	59.58	59.76	0.29	1.35
8.12	57.74	55.89	56.81	0.25	1.31
8.17	59.81	59.50	59.65	0.28	1.35
8.22	59.80	59.40	59.60	0.28	1.35
8.27	57.60	55.92	56.76	0.25	1.31
8.32	59.92	59.50	59.71	0.28	1.35
8.36	57.68	56.00	56.84	0.25	1.32
8.41	57.46	55.49	56.47	0.24	1.31
8.46	60.02	59.92	59.97	0.29	1.35
8.51	59.80	59.40	59.60	0.28	1.35
8.56	59.19	58.25	58.72	0.27	1.34
8.61	60.24	60.07	60.15	0.29	1.35
8.66	59.20	58.41	58.81	0.27	1.34
8.71	57.79	56.14	56.96	0.25	1.32
8.76	59.78	59.48	59.63	0.29	1.35
8.81	59.99	59.63	59.81	0.29	1.35

8.86	59.74	59.31	59.52	0.28	1.35
8.91	59.96	59.42	59.69	0.28	1.35
8.96	59.95	59.56	59.76	0.29	1.35
9.00	59.62	59.23	59.43	0.28	1.35
9.05	59.77	59.37	59.57	0.28	1.35
9.10	59.93	59.43	59.68	0.28	1.35
9.15	59.61	59.25	59.43	0.28	1.35
9.20	59.47	58.53	59.00	0.27	1.34
9.25	59.91	59.63	59.77	0.29	1.35
9.30	59.85	59.49	59.67	0.28	1.35
9.35	57.42	55.72	56.57	0.25	1.31
9.40	57.48	55.68	56.58	0.25	1.31
9.45	59.96	59.53	59.74	0.29	1.35
9.50	59.04	58.20	58.62	0.27	1.34
9.55	60.13	59.85	59.99	0.29	1.35
9.59	59.82	59.40	59.61	0.28	1.35
9.64	59.95	59.54	59.74	0.28	1.35
9.69	59.95	59.31	59.63	0.28	1.35
9.74	59.82	59.26	59.54	0.28	1.35
9.79	57.33	55.54	56.43	0.24	1.31
9.84	57.52	55.72	56.62	0.25	1.31
9.89	57.43	55.83	56.63	0.25	1.31
9.94	57.59	56.09	56.84	0.25	1.32
9.99	59.64	59.22	59.43	0.28	1.35