

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:59:36 BST 2023

## Experiment info

Name	csg524 Treated Sample 5 Measurement 3
Type	Contact angle
Date	18-May-2023 15:50

## Solid

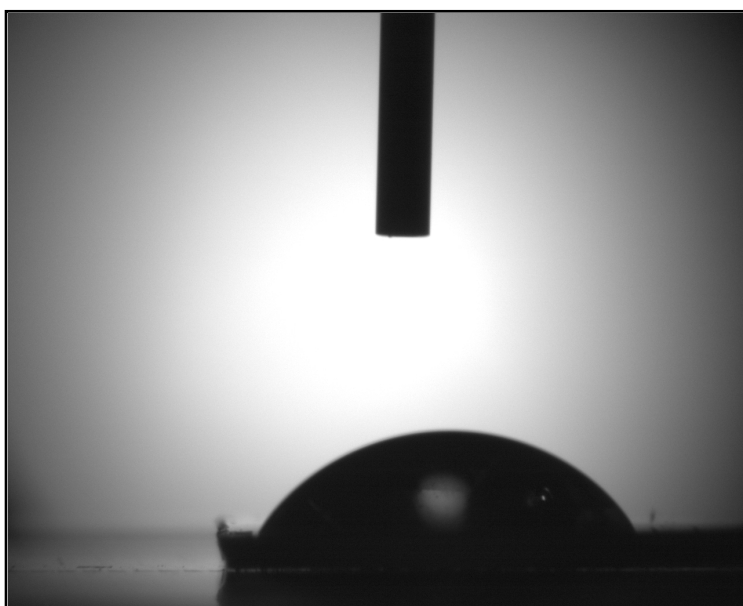
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

## 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	52.03	53.16	52.60	0.34	1.34
0.05	56.22	57.48	56.85	0.38	1.39
0.10	55.80	57.04	56.42	0.38	1.39
0.15	55.76	57.06	56.41	0.38	1.39
0.20	56.14	57.52	56.83	0.38	1.39
0.25	52.37	54.34	53.36	0.34	1.34
0.30	55.62	57.00	56.31	0.39	1.39
0.34	56.00	57.40	56.70	0.38	1.39
0.39	34.45	37.26	35.85	0.04	0.95
0.44	54.19	55.80	54.99	0.37	1.37
0.49	53.78	55.50	54.64	0.36	1.36
0.54	48.67	50.81	49.74	0.24	1.27
0.59	54.34	55.95	55.15	0.36	1.37
0.64	55.75	57.04	56.39	0.38	1.39
0.69	55.99	57.24	56.61	0.38	1.39
0.74	52.10	53.26	52.68	0.34	1.34
0.79	51.97	52.96	52.47	0.32	1.34
0.84	55.64	56.99	56.31	0.38	1.39
0.89	55.73	57.00	56.37	0.38	1.39
0.93	52.58	54.39	53.49	0.33	1.34
0.98	42.06	44.80	43.43	0.11	1.13
1.03	52.61	53.76	53.18	0.35	1.35
1.08	52.37	54.26	53.31	0.34	1.34
1.13	33.25	33.04	33.14	0.07	0.94
1.18	52.51	54.43	53.47	0.34	1.35
1.23	54.34	55.20	54.77	0.36	1.37
1.28	55.76	56.99	56.37	0.38	1.39
1.33	51.37	52.65	52.01	0.32	1.33
1.38	55.93	57.26	56.59	0.38	1.39
1.43	52.46	54.25	53.35	0.35	1.35
1.48	52.55	54.36	53.45	0.34	1.35
1.53	54.21	55.91	55.06	0.37	1.37
1.57	55.92	57.28	56.60	0.39	1.39
1.62	51.76	53.60	52.68	0.31	1.33
1.67	50.93	52.18	51.56	0.31	1.32
1.72	55.87	57.28	56.57	0.38	1.39

1.77	51.30	52.46	51.88	0.33	1.33
1.82	55.93	57.32	56.63	0.38	1.39
1.87	54.17	54.86	54.52	0.34	1.36
1.92	55.93	57.40	56.66	0.38	1.39
1.97	55.80	57.16	56.48	0.38	1.39
2.02	54.17	55.13	54.65	0.36	1.37
2.07	55.17	56.73	55.95	0.38	1.38
2.12	55.77	57.02	56.39	0.38	1.39
2.16	56.04	57.34	56.69	0.38	1.39
2.21	54.26	55.83	55.05	0.37	1.37
2.26	53.96	55.48	54.72	0.36	1.37
2.31	54.22	55.12	54.67	0.35	1.37
2.36	55.84	57.03	56.44	0.38	1.39
2.41	52.56	54.27	53.41	0.34	1.35
2.46	56.09	57.25	56.67	0.38	1.39
2.51	52.87	54.84	53.85	0.35	1.35
2.56	54.41	55.23	54.82	0.35	1.37
2.61	54.30	55.85	55.08	0.38	1.37
2.66	54.49	55.33	54.91	0.35	1.37
2.71	52.35	53.35	52.85	0.33	1.34
2.76	51.55	52.70	52.13	0.34	1.33
2.80	53.50	54.23	53.87	0.35	1.36
2.85	55.89	57.25	56.57	0.38	1.39
2.90	54.74	55.41	55.07	0.35	1.37
2.95	55.67	57.07	56.37	0.38	1.39
3.00	36.27	39.32	37.79	0.05	1.00
3.05	52.77	54.65	53.71	0.34	1.35
3.10	55.79	57.10	56.44	0.39	1.39
3.15	51.07	52.40	51.74	0.32	1.32
3.20	55.69	57.00	56.34	0.38	1.39
3.25	55.71	57.05	56.38	0.39	1.39
3.30	55.75	57.25	56.50	0.38	1.39
3.35	55.79	57.18	56.48	0.39	1.39
3.39	55.84	57.13	56.48	0.38	1.39
3.44	55.86	57.20	56.53	0.38	1.39
3.49	53.65	55.54	54.59	0.37	1.37
3.54	55.60	56.87	56.24	0.38	1.39
3.59	54.10	55.63	54.86	0.36	1.37
3.64	55.61	56.95	56.28	0.38	1.39
3.69	53.91	55.59	54.75	0.37	1.37
3.74	55.79	57.15	56.47	0.38	1.39
3.79	55.71	57.01	56.36	0.38	1.39
3.84	55.85	57.00	56.43	0.37	1.39
3.89	55.82	57.08	56.45	0.38	1.39
3.94	54.02	55.64	54.83	0.36	1.37
3.99	54.17	54.87	54.52	0.35	1.36
4.03	55.77	56.97	56.37	0.38	1.39
4.08	39.02	38.16	38.59	0.17	1.06
4.13	55.82	57.13	56.48	0.38	1.39
4.18	54.44	55.26	54.85	0.36	1.37
4.23	55.96	57.33	56.64	0.39	1.39
4.28	37.08	39.86	38.47	0.06	1.02
4.33	54.24	54.92	54.58	0.35	1.37
4.38	52.77	54.59	53.68	0.33	1.35
4.43	52.56	54.32	53.44	0.32	1.34
4.48	53.53	54.17	53.85	0.34	1.36
4.53	50.18	51.67	50.93	0.29	1.30
4.58	52.59	54.40	53.50	0.33	1.35
4.63	53.67	55.54	54.60	0.38	1.37
4.67	43.21	42.50	42.86	0.17	1.16
4.72	55.89	57.20	56.54	0.38	1.39
4.77	52.27	53.97	53.12	0.34	1.34
4.82	53.72	54.43	54.08	0.34	1.36
4.87	52.46	54.37	53.42	0.35	1.34
4.92	52.29	54.33	53.31	0.34	1.34
4.97	48.75	51.08	49.91	0.23	1.27
5.02	55.60	57.00	56.30	0.38	1.39
5.07	52.56	54.36	53.46	0.35	1.35
5.12	55.61	57.01	56.31	0.38	1.39
5.17	55.69	57.04	56.37	0.38	1.39
5.22	54.07	54.87	54.47	0.35	1.37
5.26	55.76	56.99	56.37	0.37	1.39

5.31	52.63	54.41	53.52	0.33	1.34
5.36	55.79	57.15	56.47	0.38	1.39
5.41	56.16	57.61	56.88	0.38	1.39
5.46	52.69	54.58	53.63	0.34	1.35
5.51	50.77	52.09	51.43	0.32	1.32
5.56	55.54	56.90	56.22	0.39	1.39
5.61	53.93	55.62	54.77	0.37	1.37
5.66	55.89	57.17	56.53	0.38	1.39
5.71	53.81	55.72	54.76	0.37	1.37
5.76	55.76	57.25	56.51	0.38	1.39
5.81	55.99	57.37	56.68	0.38	1.39
5.86	54.06	55.59	54.82	0.36	1.37
5.90	52.82	54.59	53.70	0.34	1.35
5.95	55.70	57.04	56.37	0.38	1.39
6.00	54.32	55.07	54.69	0.35	1.37
6.05	52.54	54.46	53.50	0.34	1.35
6.10	55.74	57.10	56.42	0.39	1.39
6.15	55.89	56.97	56.43	0.37	1.39
6.20	53.81	55.40	54.61	0.35	1.36
6.25	53.87	54.70	54.28	0.35	1.36
6.30	53.75	55.59	54.67	0.37	1.37
6.35	54.13	54.99	54.56	0.36	1.37
6.40	55.72	56.95	56.33	0.38	1.39
6.45	44.44	46.06	45.25	0.16	1.19
6.49	55.80	57.15	56.48	0.38	1.39
6.54	55.58	56.83	56.20	0.38	1.39
6.59	55.64	56.95	56.30	0.38	1.39
6.64	55.80	57.07	56.43	0.38	1.39
6.69	54.06	55.69	54.87	0.36	1.37
6.74	51.56	52.86	52.21	0.32	1.33
6.79	48.93	51.03	49.98	0.24	1.28
6.84	54.27	55.05	54.66	0.35	1.37
6.89	55.60	56.93	56.27	0.38	1.39
6.94	55.76	56.93	56.34	0.38	1.39
6.99	53.95	55.55	54.75	0.37	1.37
7.04	54.25	55.80	55.02	0.37	1.37
7.09	26.69	26.69	26.69	0.02	0.78
7.13	52.21	53.85	53.03	0.34	1.34
7.18	55.59	57.04	56.32	0.38	1.39
7.23	48.86	50.95	49.91	0.24	1.28
7.28	55.79	57.14	56.47	0.39	1.39
7.33	55.83	57.11	56.47	0.38	1.39
7.38	51.99	53.01	52.50	0.33	1.34
7.43	55.71	57.02	56.37	0.38	1.39
7.48	54.06	54.92	54.49	0.35	1.37
7.53	55.64	57.01	56.32	0.39	1.39
7.58	54.16	56.07	55.12	0.37	1.37
7.63	52.42	54.17	53.29	0.33	1.34
7.68	53.74	55.52	54.63	0.36	1.36
7.72	53.60	55.29	54.44	0.37	1.37
7.77	38.35	40.89	39.62	0.06	1.04
7.82	55.98	57.15	56.56	0.38	1.39
7.87	53.90	54.59	54.25	0.35	1.36
7.92	52.56	54.55	53.56	0.34	1.35
7.97	52.39	54.25	53.32	0.33	1.34
8.02	50.21	52.33	51.27	0.29	1.31
8.07	53.92	55.66	54.79	0.37	1.37
8.12	53.94	54.65	54.29	0.34	1.36
8.17	52.45	54.35	53.40	0.34	1.35
8.22	53.46	55.20	54.33	0.36	1.36
8.27	55.73	56.95	56.34	0.38	1.39
8.32	55.65	56.85	56.25	0.37	1.39
8.36	55.75	56.91	56.33	0.38	1.39
8.41	55.47	56.78	56.12	0.38	1.39
8.46	55.84	56.91	56.38	0.37	1.39
8.51	56.07	57.42	56.75	0.38	1.39
8.56	50.98	52.90	51.94	0.30	1.32
8.61	55.46	56.78	56.12	0.38	1.39
8.66	50.82	51.95	51.38	0.31	1.32
8.71	52.46	54.28	53.37	0.34	1.34
8.76	55.62	57.06	56.34	0.38	1.39
8.81	55.72	57.15	56.44	0.38	1.39

8.86	54.44	55.96	55.20	0.37	1.38
8.91	52.46	54.32	53.39	0.35	1.35
8.96	52.33	54.10	53.21	0.34	1.34
9.00	40.08	39.12	39.60	0.17	1.08
9.05	53.90	55.51	54.70	0.37	1.37
9.10	52.48	54.35	53.41	0.34	1.35
9.15	56.04	57.35	56.70	0.38	1.39
9.20	55.78	57.14	56.46	0.38	1.39
9.25	52.50	54.37	53.43	0.34	1.35
9.30	53.63	55.36	54.50	0.36	1.36
9.35	52.07	53.09	52.58	0.33	1.34
9.40	53.57	55.24	54.41	0.37	1.36
9.45	52.34	54.18	53.26	0.33	1.34
9.50	55.46	57.05	56.26	0.39	1.39
9.55	55.93	57.11	56.52	0.38	1.39
9.59	55.70	56.99	56.35	0.37	1.39
9.64	55.44	56.88	56.16	0.38	1.39
9.69	54.15	54.98	54.56	0.36	1.37
9.74	55.63	57.03	56.33	0.39	1.39
9.79	55.67	57.06	56.37	0.38	1.39
9.84	53.63	55.46	54.55	0.37	1.37
9.89	54.04	54.97	54.50	0.35	1.36
9.94	55.80	57.32	56.56	0.39	1.39
9.99	55.58	56.94	56.26	0.38	1.39