

# OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:59:45 BST 2023

## Experiment info

Name	csg524 Treated Sample 5 Measurement 5
Type	Contact angle
Date	18-May-2023 15:53

## Solid

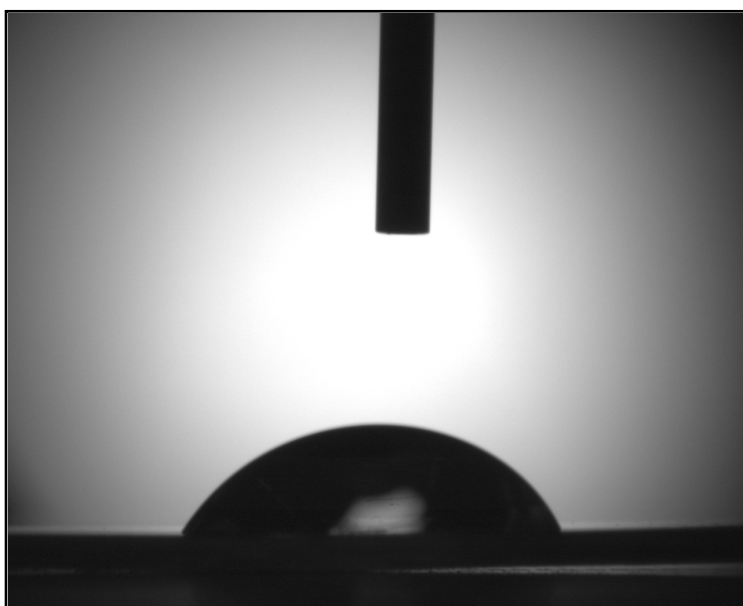
Name	polypropylene untreated
$\gamma_{\text{tot}}$ [mN/m]	25.700
$\gamma_{\text{d}}$ [mN/m]	25.300
$\gamma_{+}$ [mN/m]	0.090
$\gamma_{-}$ [mN/m]	0.500
$\rho$ [g/cm <sup>3</sup> ]	

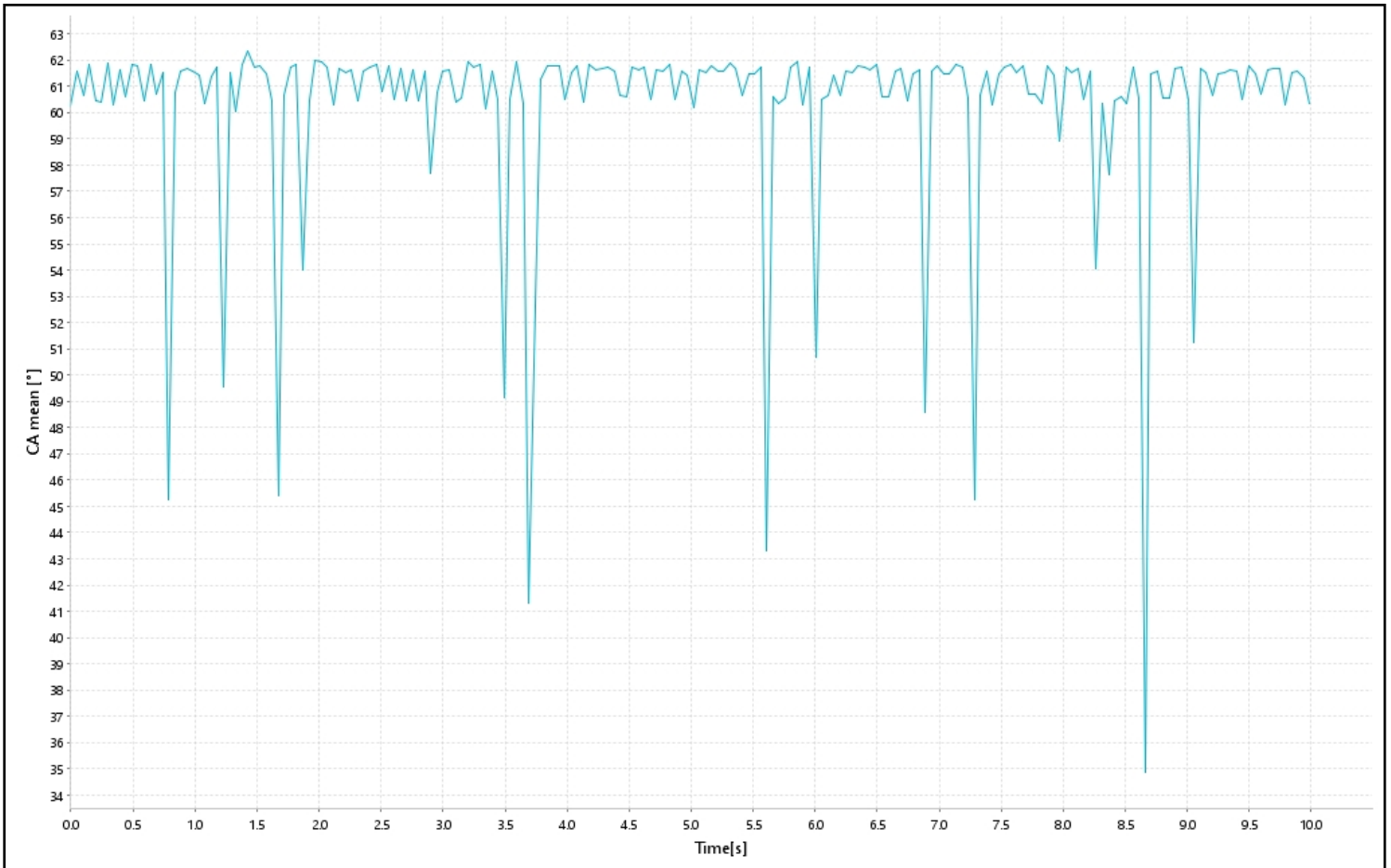
## Heavy phase

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	57.53	62.99	60.26	0.49	1.39
0.05	58.35	64.79	61.57	0.51	1.40
0.10	57.73	63.61	60.67	0.49	1.40
0.15	58.58	65.08	61.83	0.51	1.41
0.20	57.67	63.27	60.47	0.49	1.40
0.25	57.47	63.36	60.41	0.49	1.40
0.30	58.65	65.11	61.88	0.51	1.41
0.34	57.44	63.12	60.28	0.49	1.39
0.39	58.46	64.79	61.62	0.50	1.40
0.44	57.74	63.47	60.60	0.49	1.40
0.49	58.60	65.06	61.83	0.50	1.41
0.54	58.54	65.05	61.79	0.50	1.41
0.59	57.61	63.32	60.47	0.49	1.40
0.64	58.60	65.03	61.81	0.51	1.41
0.69	57.80	63.65	60.73	0.49	1.40
0.74	58.31	64.79	61.55	0.51	1.40
0.79	45.04	45.44	45.24	0.29	1.21
0.84	57.84	63.71	60.77	0.49	1.40
0.89	58.46	64.73	61.59	0.50	1.40
0.93	58.49	64.86	61.67	0.50	1.41
0.98	58.39	64.73	61.56	0.50	1.40
1.03	58.33	64.54	61.44	0.50	1.40
1.08	57.47	63.24	60.36	0.50	1.40
1.13	58.47	64.32	61.39	0.50	1.40
1.18	58.51	64.90	61.71	0.50	1.41
1.23	48.81	50.34	49.57	0.36	1.28
1.28	58.39	64.70	61.55	0.51	1.40
1.33	57.26	62.78	60.02	0.48	1.39
1.38	58.64	65.00	61.82	0.50	1.40
1.43	58.98	65.67	62.33	0.50	1.41
1.48	58.53	64.93	61.73	0.50	1.40
1.53	58.59	64.98	61.79	0.50	1.41
1.57	58.30	64.70	61.50	0.50	1.40
1.62	57.60	63.28	60.44	0.49	1.40
1.67	45.27	45.55	45.41	0.29	1.21
1.72	57.62	63.64	60.63	0.50	1.40

1.77	58.64	64.84	61.74	0.50	1.41
1.82	58.73	64.91	61.82	0.49	1.41
1.87	52.58	55.44	54.01	0.41	1.33
1.92	57.75	63.20	60.47	0.48	1.40
1.97	58.57	65.37	61.97	0.51	1.41
2.02	58.75	65.16	61.95	0.50	1.41
2.07	58.52	64.89	61.71	0.50	1.41
2.12	57.31	63.23	60.27	0.49	1.40
2.16	58.54	64.85	61.69	0.50	1.40
2.21	58.48	64.58	61.53	0.50	1.40
2.26	58.54	64.74	61.64	0.50	1.40
2.31	57.57	63.35	60.46	0.49	1.40
2.36	58.33	64.87	61.60	0.51	1.40
2.41	58.66	64.76	61.71	0.50	1.41
2.46	58.65	65.01	61.83	0.51	1.41
2.51	57.79	63.85	60.82	0.50	1.40
2.56	58.60	64.93	61.77	0.50	1.41
2.61	57.67	63.37	60.52	0.49	1.40
2.66	58.68	64.67	61.68	0.49	1.40
2.71	57.71	63.15	60.43	0.48	1.40
2.76	58.48	64.81	61.64	0.50	1.41
2.80	57.79	63.08	60.44	0.48	1.40
2.85	58.47	64.64	61.56	0.50	1.40
2.90	55.60	59.81	57.71	0.44	1.37
2.95	57.86	63.68	60.77	0.48	1.40
3.00	58.28	64.89	61.58	0.50	1.40
3.05	58.40	64.90	61.65	0.51	1.41
3.10	57.60	63.21	60.40	0.48	1.40
3.15	57.78	63.31	60.55	0.49	1.40
3.20	58.85	64.99	61.92	0.50	1.41
3.25	58.80	64.66	61.73	0.49	1.40
3.30	58.68	65.01	61.85	0.50	1.41
3.35	57.36	62.94	60.15	0.49	1.39
3.40	58.41	64.72	61.56	0.51	1.41
3.44	57.70	63.34	60.52	0.48	1.40
3.49	48.40	49.91	49.15	0.36	1.27
3.54	57.88	63.10	60.49	0.48	1.40
3.59	58.48	65.35	61.91	0.51	1.41
3.64	57.70	63.02	60.36	0.48	1.39
3.69	41.53	41.11	41.32	0.21	1.13
3.74	51.38	53.90	52.64	0.39	1.32
3.79	58.29	64.29	61.29	0.50	1.40
3.84	58.85	64.72	61.78	0.49	1.41
3.89	58.53	65.05	61.79	0.50	1.41
3.94	58.71	64.81	61.76	0.49	1.41
3.99	57.71	63.28	60.49	0.48	1.40
4.03	58.50	64.59	61.55	0.50	1.41
4.08	58.69	64.86	61.77	0.50	1.41
4.13	57.84	62.97	60.40	0.47	1.40
4.18	58.77	64.94	61.85	0.50	1.41
4.23	58.50	64.73	61.61	0.50	1.40
4.28	58.68	64.70	61.69	0.49	1.40
4.33	58.53	64.97	61.75	0.50	1.41
4.38	58.64	64.53	61.59	0.49	1.41
4.43	57.74	63.60	60.67	0.49	1.40
4.48	57.73	63.46	60.59	0.49	1.40
4.53	58.69	64.73	61.71	0.49	1.41
4.58	58.46	64.76	61.61	0.50	1.40
4.63	58.51	64.96	61.73	0.50	1.40
4.67	57.82	63.19	60.51	0.47	1.39
4.72	58.48	64.73	61.60	0.50	1.41
4.77	58.63	64.56	61.60	0.49	1.40
4.82	58.65	64.99	61.82	0.50	1.41
4.87	57.66	63.30	60.48	0.48	1.40
4.92	58.15	64.97	61.56	0.52	1.41
4.97	59.21	63.63	61.42	0.46	1.40
5.02	57.30	63.10	60.20	0.49	1.39
5.07	58.61	64.65	61.63	0.50	1.41
5.12	58.50	64.59	61.55	0.50	1.41
5.17	58.81	64.73	61.77	0.50	1.41
5.22	58.58	64.56	61.57	0.50	1.41
5.26	58.83	64.30	61.56	0.48	1.40

5.31	58.56	65.18	61.87	0.50	1.41
5.36	58.35	64.99	61.67	0.50	1.40
5.41	58.00	63.35	60.67	0.47	1.40
5.46	58.40	64.56	61.48	0.50	1.41
5.51	58.21	64.73	61.47	0.50	1.40
5.56	58.83	64.66	61.75	0.49	1.41
5.61	43.41	43.20	43.30	0.25	1.17
5.66	57.80	63.44	60.62	0.48	1.40
5.71	57.71	63.00	60.35	0.47	1.39
5.76	57.77	63.32	60.55	0.48	1.40
5.81	58.84	64.60	61.72	0.49	1.41
5.86	58.69	65.21	61.95	0.50	1.41
5.90	57.58	63.03	60.31	0.48	1.40
5.95	58.80	64.61	61.71	0.49	1.40
6.00	50.01	51.35	50.68	0.35	1.29
6.05	57.66	63.38	60.52	0.48	1.40
6.10	57.60	63.66	60.63	0.49	1.40
6.15	58.62	64.21	61.42	0.49	1.40
6.20	57.73	63.57	60.65	0.48	1.40
6.25	58.64	64.51	61.57	0.49	1.40
6.30	58.59	64.48	61.54	0.49	1.40
6.35	58.64	64.95	61.79	0.49	1.41
6.40	58.83	64.67	61.75	0.49	1.41
6.45	58.41	64.88	61.65	0.50	1.41
6.49	58.83	64.82	61.83	0.50	1.41
6.54	57.76	63.48	60.62	0.48	1.40
6.59	57.71	63.48	60.60	0.48	1.40
6.64	58.54	64.57	61.55	0.49	1.40
6.69	58.46	64.85	61.65	0.50	1.41
6.74	57.64	63.24	60.44	0.48	1.40
6.79	58.39	64.52	61.45	0.49	1.40
6.84	58.61	64.69	61.65	0.49	1.41
6.89	48.20	48.99	48.60	0.33	1.26
6.94	58.60	64.50	61.55	0.49	1.41
6.99	58.66	64.93	61.80	0.50	1.41
7.04	58.66	64.32	61.49	0.48	1.40
7.09	58.41	64.57	61.49	0.49	1.40
7.13	58.84	64.84	61.84	0.49	1.41
7.18	58.78	64.67	61.72	0.49	1.41
7.23	57.83	63.25	60.54	0.48	1.40
7.28	45.14	45.38	45.26	0.29	1.21
7.33	57.93	63.41	60.67	0.48	1.40
7.38	58.68	64.53	61.60	0.49	1.41
7.43	57.59	63.00	60.29	0.48	1.40
7.48	58.48	64.50	61.49	0.50	1.41
7.53	58.77	64.73	61.75	0.49	1.41
7.58	58.78	64.90	61.84	0.49	1.41
7.63	58.39	64.61	61.50	0.50	1.40
7.68	58.88	64.64	61.76	0.49	1.41
7.73	57.91	63.48	60.69	0.48	1.40
7.77	58.03	63.40	60.71	0.48	1.40
7.82	57.78	62.88	60.33	0.47	1.40
7.87	58.68	64.85	61.77	0.49	1.41
7.92	58.55	64.31	61.43	0.48	1.40
7.97	57.05	60.80	58.93	0.50	1.40
8.02	58.62	64.80	61.71	0.50	1.41
8.07	58.60	64.42	61.51	0.49	1.40
8.12	58.59	64.80	61.69	0.49	1.41
8.17	57.74	63.27	60.51	0.47	1.39
8.22	58.67	64.51	61.59	0.49	1.41
8.27	52.70	55.42	54.06	0.40	1.33
8.32	57.76	62.92	60.34	0.47	1.40
8.36	55.64	59.64	57.64	0.44	1.37
8.41	57.91	63.00	60.46	0.47	1.40
8.46	57.93	63.29	60.61	0.47	1.40
8.51	57.54	63.15	60.34	0.48	1.40
8.56	58.89	64.60	61.74	0.48	1.41
8.61	57.77	63.32	60.55	0.48	1.40
8.66	35.19	34.50	34.85	0.06	0.98
8.71	58.58	64.40	61.49	0.49	1.40
8.76	58.59	64.57	61.58	0.50	1.41
8.81	57.96	63.13	60.55	0.47	1.40

8.86	57.86	63.21	60.53	0.47	1.40
8.91	58.59	64.78	61.68	0.50	1.41
8.96	58.64	64.82	61.73	0.49	1.41
9.00	57.94	63.06	60.50	0.47	1.40
9.05	50.48	52.04	51.26	0.36	1.30
9.10	58.69	64.62	61.66	0.49	1.41
9.15	58.61	64.43	61.52	0.49	1.40
9.20	57.91	63.43	60.67	0.48	1.40
9.25	58.53	64.44	61.49	0.49	1.40
9.30	58.66	64.40	61.53	0.48	1.40
9.35	58.59	64.67	61.63	0.49	1.40
9.40	58.74	64.46	61.60	0.48	1.41
9.45	57.79	63.17	60.48	0.48	1.40
9.50	58.50	65.10	61.80	0.50	1.41
9.55	58.78	64.22	61.50	0.48	1.40
9.59	57.84	63.54	60.69	0.48	1.40
9.64	58.69	64.57	61.63	0.49	1.41
9.69	58.75	64.58	61.66	0.49	1.41
9.74	58.61	64.75	61.68	0.49	1.41
9.79	57.70	62.86	60.28	0.47	1.39
9.84	58.57	64.52	61.55	0.48	1.40
9.89	58.64	64.46	61.55	0.49	1.41
9.94	58.43	64.24	61.33	0.49	1.40
9.99	57.79	62.92	60.35	0.47	1.40