

## ภาคผนวก ก

## ผลความหนืดของโพลิเมอร์ประจุบวกที่ได้รับการอนุเคราะห์มา

ตาราง ก1

ผลความหนืดของโพลิเมอร์ WF 5803

#	Viscosity cP	Speed RPM	Torque %	Sh Stress D/cm <sup>2</sup>	Sh Rate 1/sec	Temp °C	Time Seconds
1	0.00	0.00	0.00	0.00	0.00	20.5	00:04.5
2	1050	5.00	10.5	48.8	4.65	20.5	00:30.9
3	660.0	10.0	13.2	61.4	9.30	20.5	00:30.0
4	405.0	20.0	16.2	75.3	18.6	20.5	00:30.8
5	301.7	30.0	18.1	84.2	27.9	20.5	00:29.7
6	246.3	40.0	19.7	91.6	37.2	20.5	00:32.8
7	212.0	50.0	21.2	98.6	46.5	20.5	00:29.7
8	187.5	60.0	22.5	104.6	55.8	20.5	00:30.3
9	168.6	70.0	23.6	109.7	65.1	20.5	00:30.4
10	155.0	80.0	24.8	115.3	74.4	20.5	00:30.2
11	143.3	90.0	25.8	120.0	83.7	20.6	00:30.1
12	134.0	100.0	26.8	124.6	93.0	20.5	00:30.7
13	118.3	120.0	28.4	132.1	111.6	20.5	00:30.7
14	105.7	140.0	29.6	137.6	130.2	20.6	00:30.5
15	99.7	150.0	29.9	139.0	139.5	20.6	00:30.7
16	95.3	160.0	30.5	141.8	148.8	20.6	00:30.5
17	89.2	180.0	32.1	149.3	167.4	20.6	00:30.4
18	83.0	200.0	33.2	154.4	186.0	20.6	00:30.2

ตาราง ก2  
ผลความหนืดของโพลีเมอร์ WF 5804

#	Viscosity cP	Speed RPM	Torque %	Sh Stress D/cm <sup>2</sup>	Sh Rate 1/sec	Temp °C	Time Seconds
1	0.00	0.00	0.00	0.00	0.00	19.8	00:12.6
2	1110	5.00	11.1	51.6	4.65	19.8	00:30.5
3	675.0	10.0	13.5	62.8	9.30	19.8	00:30.4
4	417.5	20.0	16.7	77.7	18.6	19.9	00:30.2
5	310.0	30.0	18.6	86.5	27.9	19.9	00:29.7
6	252.5	40.0	20.2	93.9	37.2	19.9	00:30.3
7	218.0	50.0	21.8	101.4	46.5	19.9	00:29.7
8	191.7	60.0	23.0	107.0	55.8	19.9	00:29.8
9	173.6	70.0	24.3	113.0	65.1	20.0	00:29.3
10	158.1	80.0	25.3	117.6	74.4	20.0	00:30.4
11	145.6	90.0	26.2	121.8	83.7	20.0	00:29.7
12	136.0	100.0	27.2	126.5	93.0	20.0	00:29.9
13	120.0	120.0	28.8	133.9	111.6	20.0	00:30.6
14	109.6	140.0	30.7	142.8	130.2	20.0	00:30.5
15	101.7	150.0	30.5	141.8	139.5	20.1	00:29.7
16	97.5	160.0	31.2	145.1	148.8	20.1	00:30.5
17	90.6	180.0	32.6	151.6	167.4	20.1	00:30.4
18	84.0	200.0	33.6	156.2	186.0	20.1	00:30.1

ตาราง ก3  
ผลความหนืดของโพลีเมอร์ WF 5807

#	Viscosity cP	Speed RPM	Torque %	Sh Stress D/cm <sup>2</sup>	Sh Rate 1/sec	Temp °C	Time Seconds
1	0.00	0.00	0.00	0.00	0.00	20.4	00:04.4
2	1150	5.00	11.5	53.5	4.65	20.4	00:29.7
3	725.0	10.0	14.5	67.4	9.30	20.4	00:30.1
4	437.5	20.0	17.5	81.4	18.6	20.5	00:30.5
5	325.0	30.0	19.5	90.7	27.9	20.5	00:29.6
6	263.8	40.0	21.1	98.1	37.2	20.6	00:30.1
7	226.0	50.0	22.6	105.1	46.5	20.5	00:29.8
8	199.2	60.0	23.9	111.1	55.8	20.5	00:31.0
9	180.0	70.0	25.2	117.2	65.1	20.6	00:30.3
10	163.1	80.0	26.1	121.4	74.4	20.6	00:30.6
11	149.4	90.0	26.9	125.1	83.7	20.6	00:30.5
12	140.0	100.0	28.0	130.2	93.0	20.6	00:30.9
13	122.5	120.0	29.4	136.7	111.6	20.6	00:30.0
14	111.1	140.0	31.1	144.6	130.2	20.6	00:30.5
15	106.0	150.0	31.8	147.9	139.5	20.6	00:30.0
16	101.3	160.0	32.4	150.7	148.8	20.6	00:30.7
17	94.2	180.0	33.9	157.6	167.4	20.7	00:30.5
18	87.3	200.0	34.9	162.3	186.0	20.7	00:30.3