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Run	Time (min)	Reaction Temp. (°C)	Conversion Instant.	Total	Molecular Weight Distribution Mn	Mw	PDI	Particle Diameter (nm) z avg. mean	ste. dev.
3	0	78.5	-	-	-	-	-	-	-
3	20	80.1	.461	.154	3913	11869	3.03	-	-
3	40	80.3	.518	.346	3534	9136	2.59	-	-
3	60	80.5	.6077	.607	3047	7561	2.48	-	-
3	80	81.1	.858	.858	3345	7490	2.24	-	-
3	100	78.9	1.000	1.000	3698	7592	2.05	-	-
3	120	78.9	1.002	1.002	3937	8138	2.07	-	-
3	final	-	1.004	1.004	3823	8342	2.18	129.6	18.5
4	0	78.5	-	-	-	-	-	-	-
4	20	80.6	.861	.287	11207	118044	10.53	-	-
4	40	80.6	.935	.623	11099	73457	6.62	-	-
4	60	80.4	.924	.924	11593	60079	5.18	-	-
4	80	78.4	.981	.981	11334	59284	5.23	-	-
4	100	79.1	.989	.989	10820	56166	5.19	-	-
4	120	-	.996	.996	10054	56035	5.57	-	-
4	final	-	1.000	1.000	10155	57410	5.65	85.0	19.8

Supplementary 1: Data for MMA homopolymerizations with 3/4 and 1/2 the standard COBF level, run 3 (27 ppm COBF) and run 4 (18 ppm COBF) respectively with the MMA containing COBF fed over 60 min.

Run	Time (min)	Reaction Temp. (°C)	Conversion Instant.	Total	Molecular Weight Distribution Mn	Mw	PDI	Particle Diameter (nm) z avg. mean	ste. dev.
5	0	77.8	-	-	-	-	-	-	-
5	20	80.6	.201	.201	1696	10781	6.36	-	-
5	40	80.7	.421	.421	1604	4709	2.94	-	-
5	60	80.4	.626	.626	1638	3738	2.28	-	-
5	80	80.5	.531†	.531†	2342	5362	2.29	-	-
5	100	78.9	.690†	.690†	3067	6430	2.10	-	-
5	120	78.9	.691†	.691†	3086	6442	2.09	-	-
5	final	-	.689†	.689†	2917	5993	2.05	439.4	143.1
6	0	78.3	-	-	-	-	-	-	-
6	20	80.7	.513	.171	4571	18469	4.04	-	-
6	40	81.0	.934	.622	10278	38735	3.77	-	-
6	60	81.2	.956	.956	13964	47574	3.41	-	-
6	80	79.0	1.000	1.000	15039	49246	3.27	-	-
6	100	78.2	1.006	1.006	14925	50073	3.36	-	-
6	120	78.3	1.007	1.007	15002	51235	3.42	-	-
6	final	-	1.002	1.002	14373	40727	3.53	161.3	33.6

Supplememtary 2: Data for MMA homopolymerizations with the standard COBF level (36 ppm) under different feed conditions, batch with all of the COBF and MMA in at the start of the reaction run 5, and with all of the COBF in at the start of the reaction and MMA fed over 60 min run 6.

†: Coagulation was apparent in samples taken after 60 min in run 5.

Run	Time (min)	Reaction Temp. (°C)	Conversion Instant.	Total	Molecular Weight Distribution Mn	Mw	PDI	Particle Diameter (nm) z avg. mean	ste. dev.
7	0	78.4	-	-	-	-	-	-	-
7	20	80.0	.499	.166	6261	42591	6.80	-	-
7	40	79.9	.536	.357	5300	26080	4.92	-	-
7	60	79.8	.641	.641	5033	22104	4.39	-	-
7	80	80.1	.690	.690	5026	22078	4.39	-	-
7	100	80.1	.831	.831	5426	19431	3.58	-	-
7	120	82.0	.953	.953	6952	20996	3.02	-	-
7	140	-	.983	.983	7244	21721	3.00	-	-
7	Final	-	-	-	7613	21620	2.84	101.8	25.9-
8	0	77.7	-	-	-	-	-	-	-
8	20	79.8	.482	.161	5944	53819	9.05	-	-
8	40	79.5	.640	.427	6034	40768	6.76	-	-
8	60	79.6	.607	.607	6186	36075	5.83	-	-
8	80	80.0	.731	.731	6956	33698	4.84	-	-
8	100	79.8	.829	.829	9898	40160	4.06	-	-
8	120	80.0	.896	.896	10169	49716	4.89	-	-
8	140	78.6	.965	.965	13999	78055	5.58	-	-
8	160	-	.972	.972	15216	79986	5.26	-	-
8	Final	-	.995	.995	21131	82968	3.93	-	-

Supplementarty 3: Data for MMA homopolymerizations with the standard COBF level (36 ppm) under different feed conditions, batch with all of the COBF and MMA in at the start of the reaction run 5, and with all of the COBF in at the start of the reaction and MMA fed over 60 min run 6.

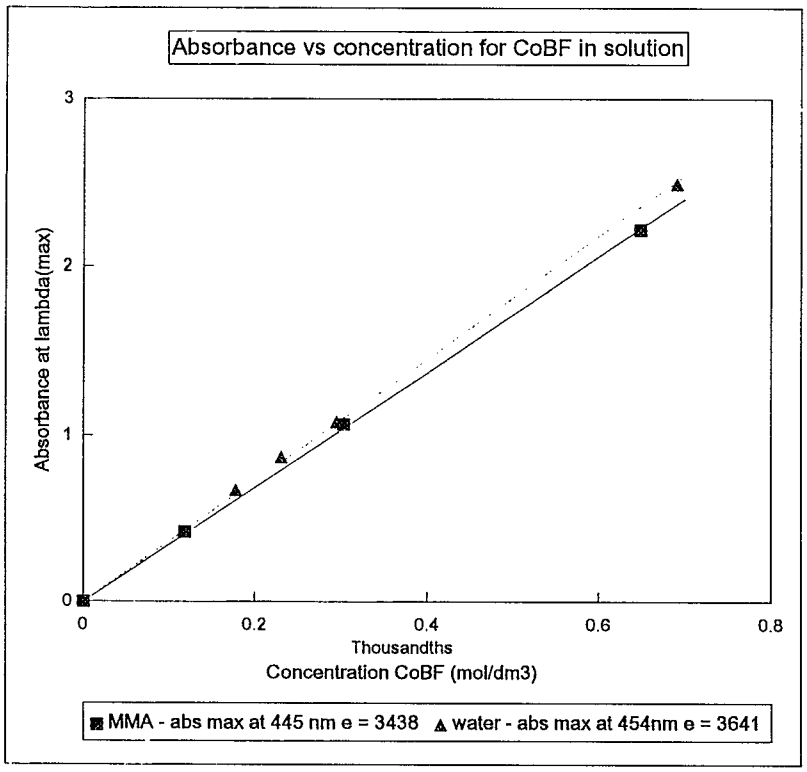
Absorbance data for CoBF solutions in MMA and water

MMA

conc CoBF stock soln M	mass stock soln g	mass MMA g	dilution factor	conc CoBF M	lambda max nm	Abs
6.48E-04	4.3389	19.4174	5.48	1.18E-04	445	0.418
6.48E-04	5.0091	5.7044	2.14	3.03E-04	445	1.0646
6.48E-04	1	0	1.00	6.48E-04	444	2.2168

water

conc CoBF stock soln M	mass stock soln g	mass water g	dilution factor	conc CoBF M	lambda max nm	Abs
6.91E-04	12.61	36.2472	3.87	1.78E-04	454	0.6699
6.91E-04	10.6499	21.2516	3.00	2.31E-04	454	0.8696
6.91E-04	10.5706	14.204	2.34	2.95E-04	454	1.0826
6.91E-04	1	0	1.00	6.91E-04	453	2.495



				water			mma			
mass CoBF stock soln in MMA	mass water	vol mma	total CoBF	abs water	conc CoBF M	amount CoBF mol	abs mma	conc CoBF M	amount CoBF mol	% CoBF accounted for
9.4792	11.8018	10.12735	6.6E-06	1.2913	0.000355	4.2E-06	0.83	0.000241	2.4E-06	101.0