

Activated carbonates: enabling the synthesis of differentiated polycarbonate resins via melt  
transcarbonation

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**Supporting information**

**Table S1** DPC model compound reaction results, following formation of HP and DiOPC vs time

time		[PCP]	[OctylPh]	[DPCPC]	[HP]	[DiOPC]
sec	mm:ss	mol/l	mol/l	mol/l	mol/l	mol/l
0	00:00	0	2.3	1.1	0	0
120	02:00	0.2	2.15	0.98	0.15	0.015
240	04:00	0.32	2.01	0.85	0.27	0.03
420	07:00	0.45	1.8	0.7	0.4	0.06
600	10:00	0.55	1.7	0.6	0.45	0.08
900	15:00	0.72	1.55	0.5	0.52	0.12
1200	20:00	0.82	1.45	0.43	0.55	0.15
1500	25:00	0.91	1.4	0.4	0.58	0.18
1800	30:00	1	1.35	0.35	0.59	0.2
2100	35:00	1.05	1.25	0.325	0.6	0.23
2400	40:00	1.14	1.17	0.29	0.6	0.27

**Table S2** BMSC model compound reaction results, following formation of HP and DiOPC vs time

time		[MS]	[OctylPh]	[BMSC]	[HP]	[DiOPC]
sec	mm:ss	mol/l	mol/l	mol/l	mol/l	mol/l
0	00:00	0	2.7	1.3	0	0
15	00:15	0.4	2.25	0.85	0.4	0.03
30	00:30	0.75	1.95	0.6	0.9	0.06
45	00:45	0.95	1.75	0.4	0.98	0.09
60	01:00	1.12	1.6	0.3	1.02	0.12
100	01:40	1.35	1.4	0.15	1.02	0.18
140	02:20	1.48	1.2	0.09	0.95	0.25
180	03:00	1.6	1.08	0.05	0.9	0.33
260	04:20	1.75	0.9	0.02	0.8	0.45
360	06:00	1.9	0.75	0.015	0.7	0.6
480	08:00	2.05	0.65	0.012	0.6	0.72
600	10:00	2.15	0.55	0.008	0.52	0.8
780	13:00	2.25	0.45	0.005	0.4	0.9
960	16:00	2.3	0.35	0.004	0.3	1
1200	20:00	2.35	0.3	0.002	0.25	1.1
1500	25:00	2.41	0.28	0.0018	0.2	1.13

