

Supplementary Materials

Table S1. Normalized values of the operational processing variables.

Num.	Experiment	X _G (g/L)	X _P (%)	X _T (°C)
1	0 0 0	10	20	70
2	1 1 1	12	25	80
3	-1 1 1	8	25	80
4	1 1 -1	12	25	60
5	-1 1 -1	8	25	60
6	1 -1 1	12	15	80
7	-1 -1 1	8	15	80
8	1 -1 -1	12	15	60
9	-1 -1 -1	8	15	60
10	0 1 0	10	25	70
11	0 -1 0	10	15	70
12	0 0 1	10	20	80
13	0 0 -1	10	20	60
14	1 0 0	12	20	70
15	-1 0 0	8	20	70

Table S2. Summary of experimental values corresponding to the viscosities, apparent densities and mean pore diameters of samples obtained from experimental design defined in table S1.

Num.	X _G (g/L)	X _P (%)	X _T (°C)	η ₀ (mPa·s)	η _∞ (mPa·s)	η _{100s⁻¹} (mPa·s)	D (g/cm ³)	P (μm)
1	0	0	0	1720	355	179	2.38	7.07
2	1	1	1	350	191	205	1.77	6.27
3	-1	1	1	1340	194	233	2.15	7.17
4	1	1	-1	350	191	205	1.85	9.28
5	-1	1	-1	1340	194	233	1.98	7.11
6	1	-1	1	280	67	153	2.37	6.22
7	-1	-1	1	250	165	143	2.44	6.62
8	1	-1	-1	280	67	153	1.95	7.33
9	-1	-1	-1	250	165	143	2.24	6.41
10	0	1	0	-	539	646	2.46	9.93
11	0	-1	0	1320	344	166	2.50	6.98
12	0	0	1	1720	355	179	2.56	6.09
13	0	0	-1	1720	355	179	2.22	6.49
14	1	0	0	340	127	187	1.99	7.24
15	-1	0	0	740	183	190	2.01	6.13

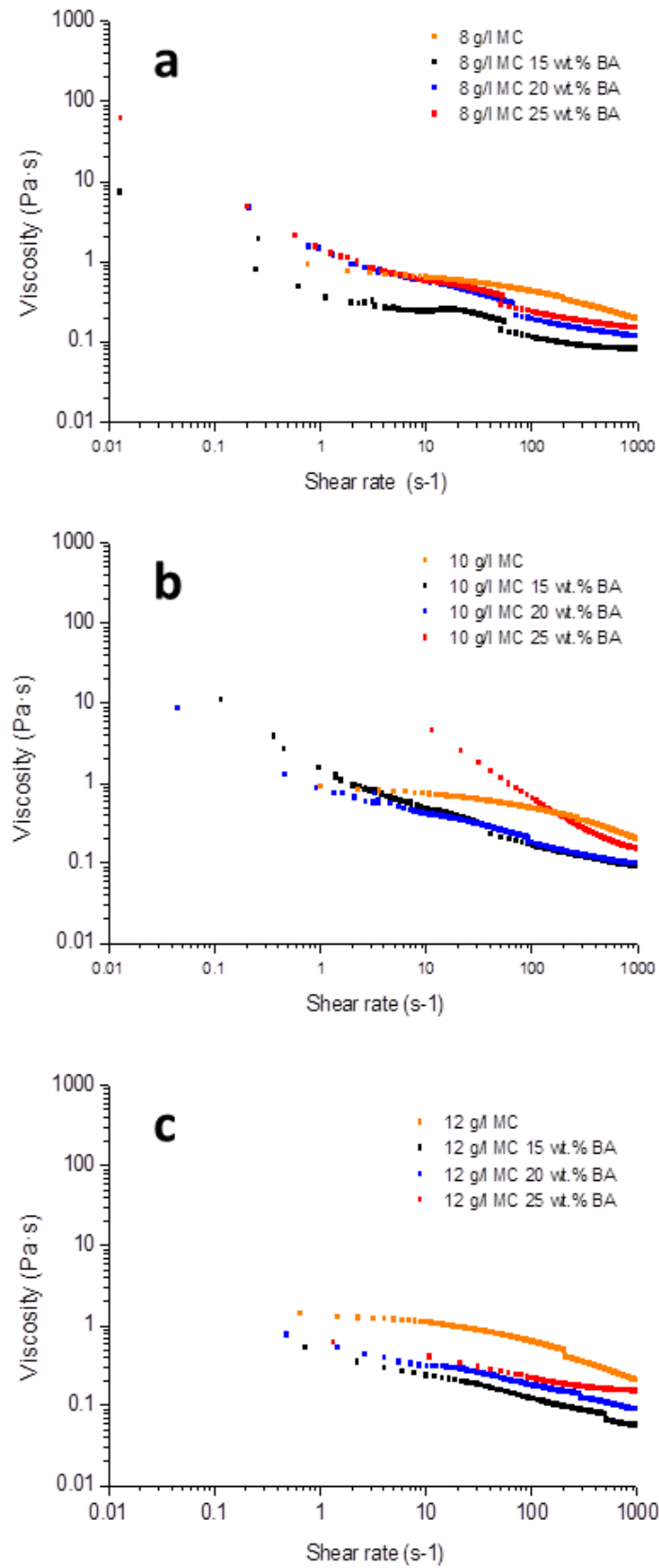


Figure S1. Evolution of the viscosity with the shear rate of suspensions with 15,20 and 25%wt. BA and a) 8g/L of MC, b)10g/L of MC and c) 12g/L of MC.

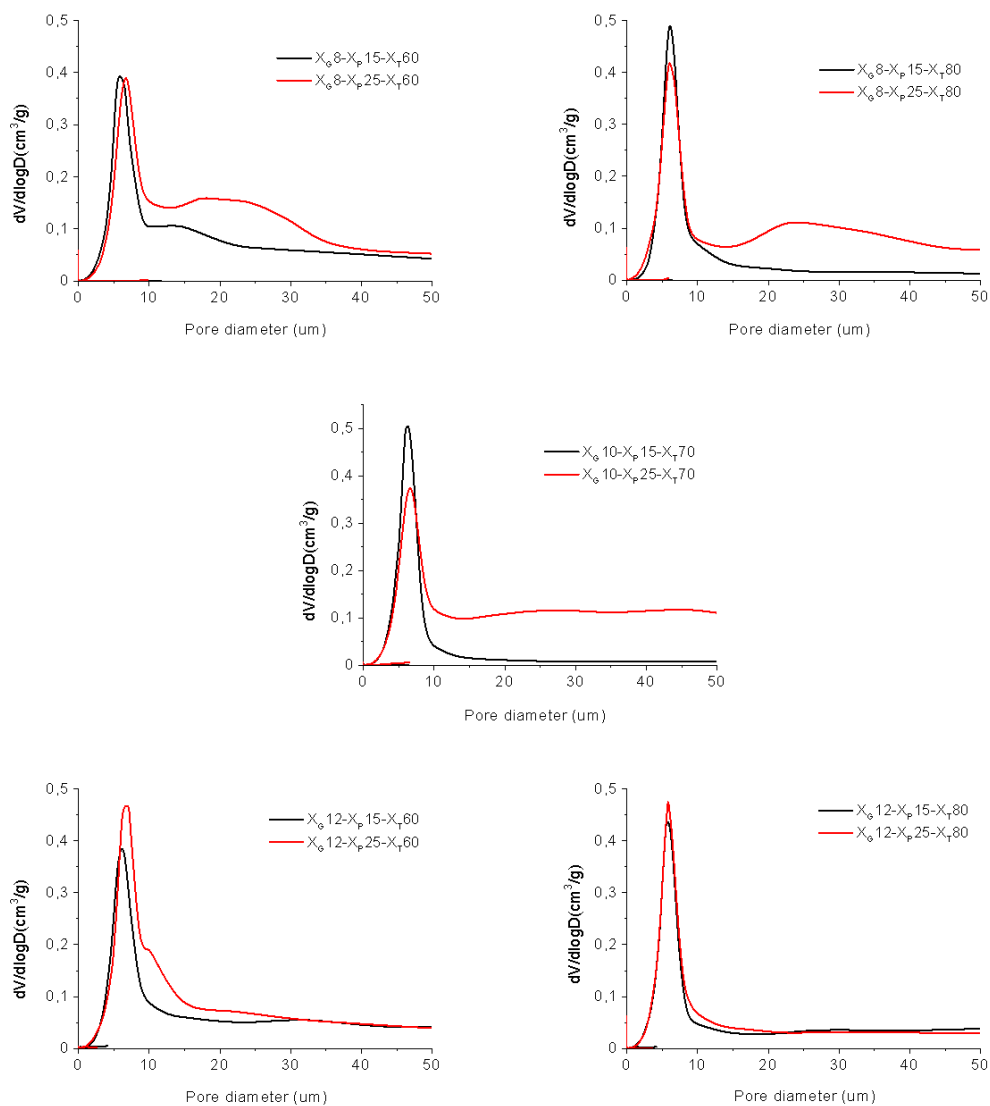


Figure S2. Mercury Intrusion Porosimetry Curves of the samples with different XP at the same XT or XG.