

Article

Peculiarities of oxidative polymerization of diarylaminodichlorobenzoquinones

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Table S1. Properties of polymers.

Sample	Polymerization conditions	M _w , g/mol	PDI	Yeld, %
poly-DADCB	standard*	2.72×10^4	1.2	96
poly-MADCB	standard	2.1×10^3	1.4	87
poly-DPDCB	standard	2.14×10^4	1.8	92
poly-ASADCB	standard	1.7×10^4	1.5	89

* - Standard polymerization conditions had the following parameters: [monomer] = 0.03 mol/L; [APS]/[monomer] = 1.25; [HCl] = 0.5 mol/L; T = 20 °C

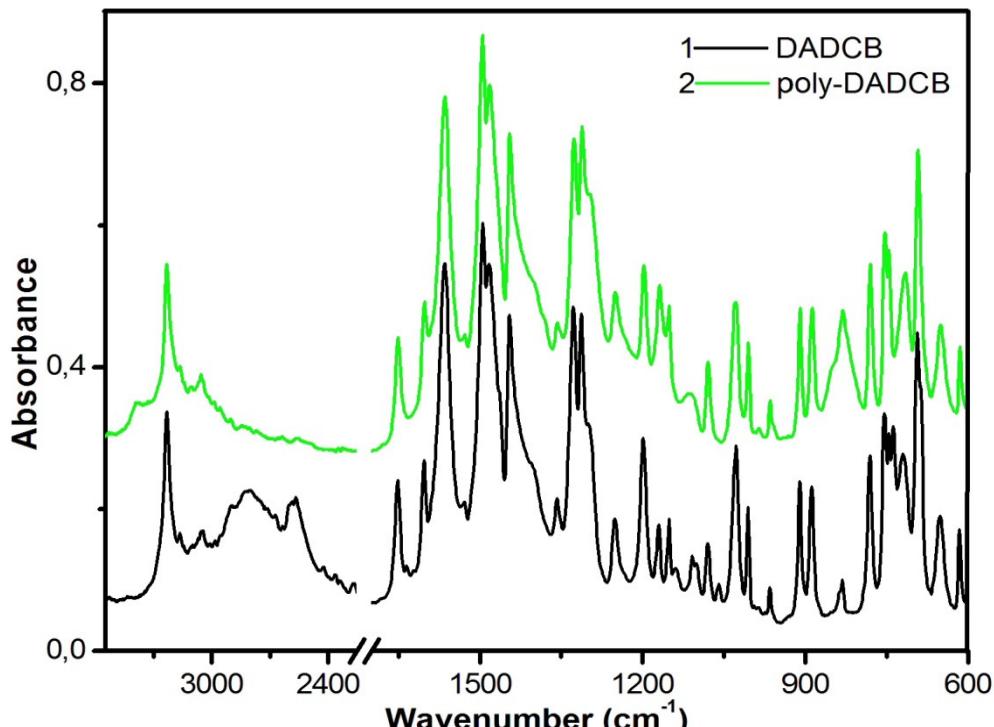


Figure S1. FTIR spectra of DADCB (1) and poly-DADCB (2) in a dedoped form.

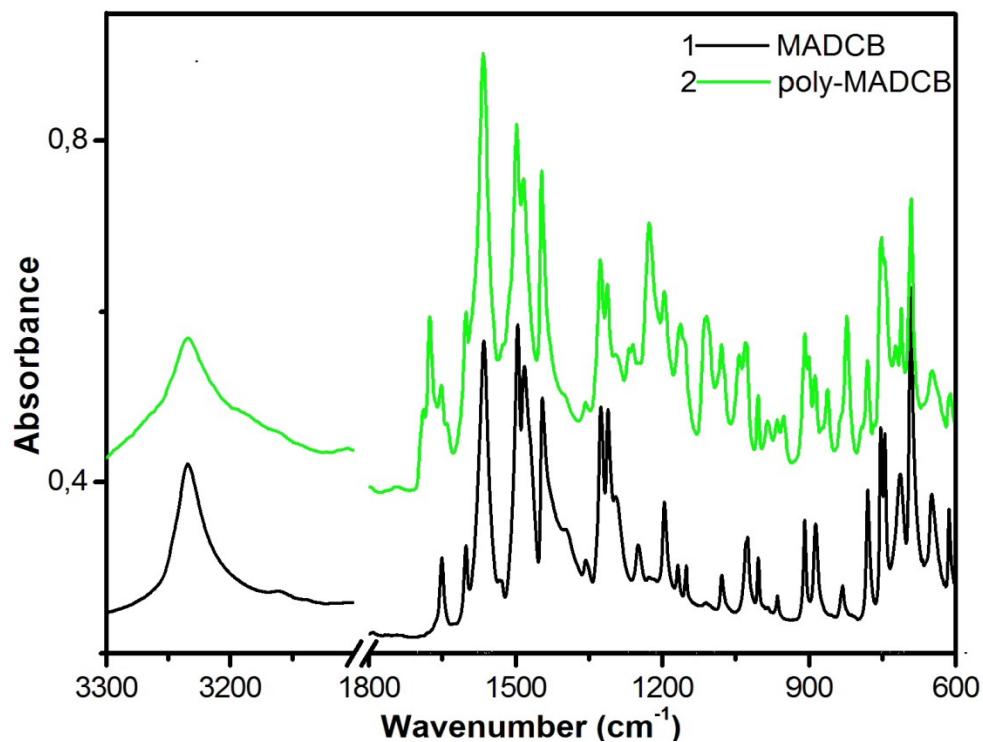


Figure S2. FTIR spectra of MADCB (1) and poly-MADCB (2) in a dedoped form.

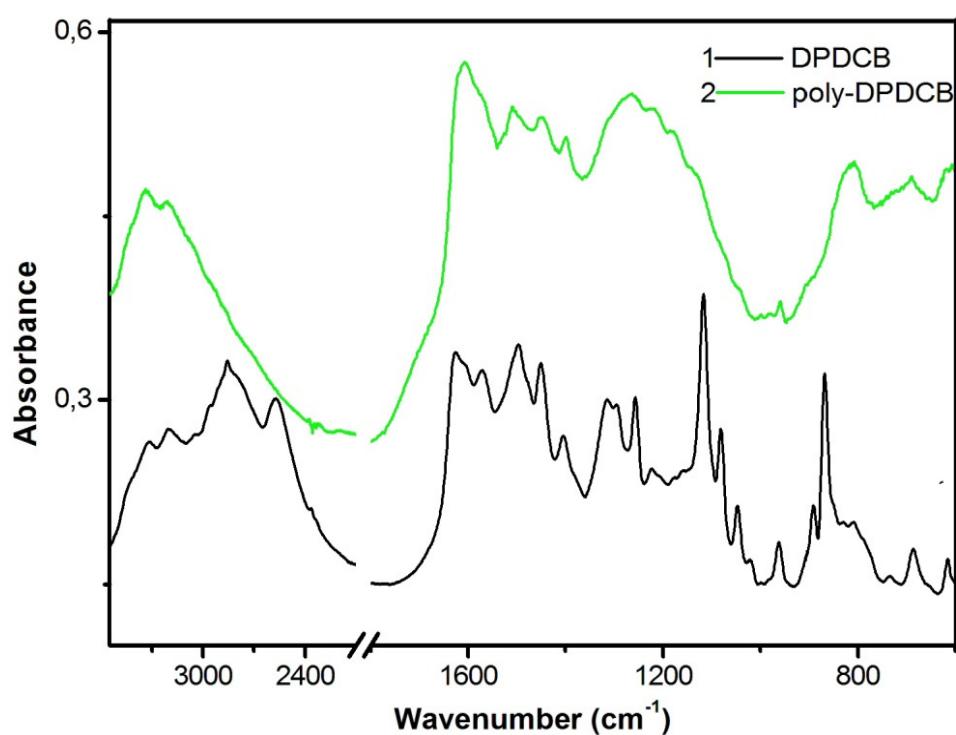


Figure S3. FTIR spectra of DPDDB (1) and poly-DPDDB (2) in a dedoped form.

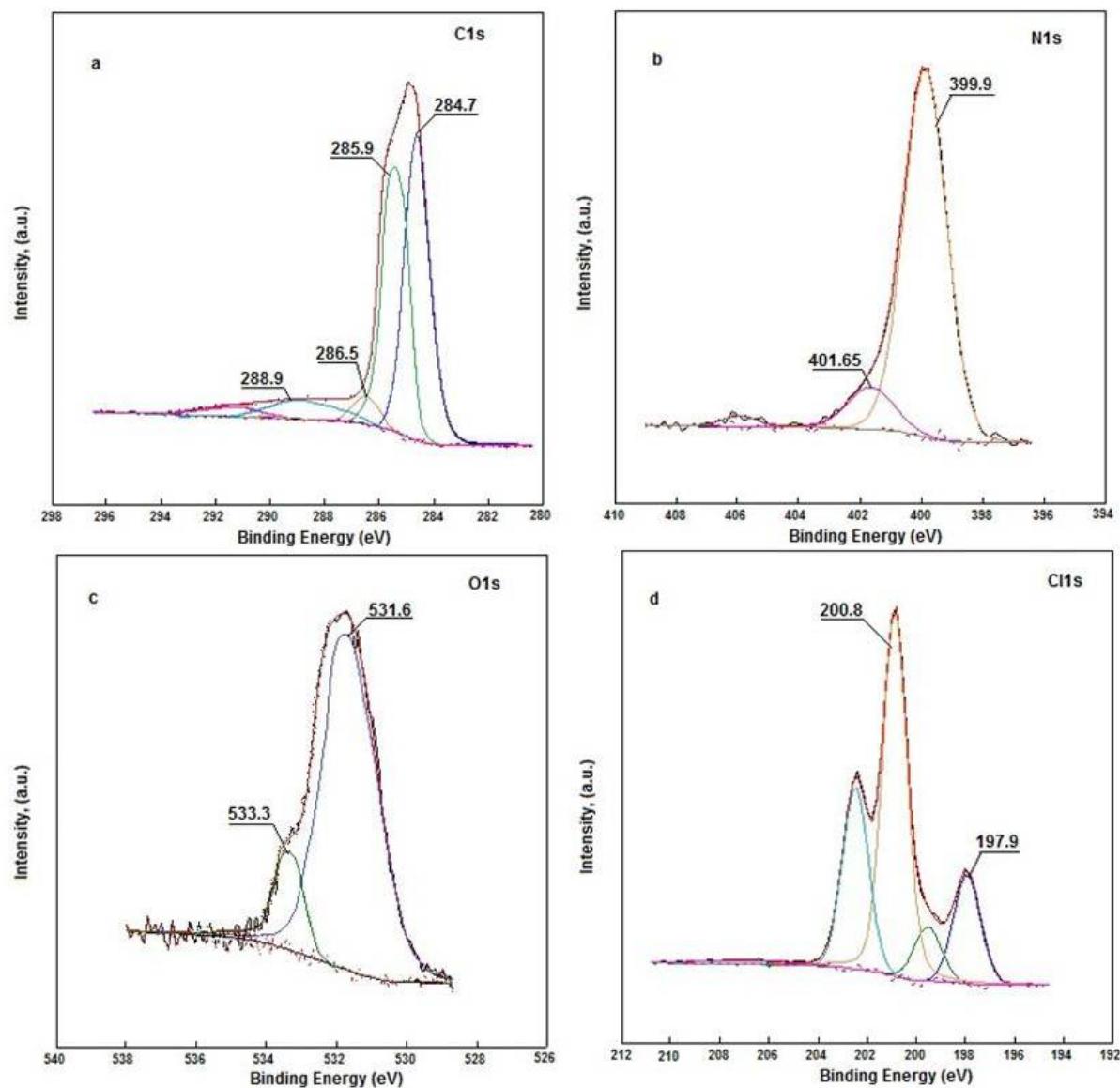


Figure S4. C1s (a) N1s (b), O1s (c) Cls (d) DPDDB spectra (XPS).

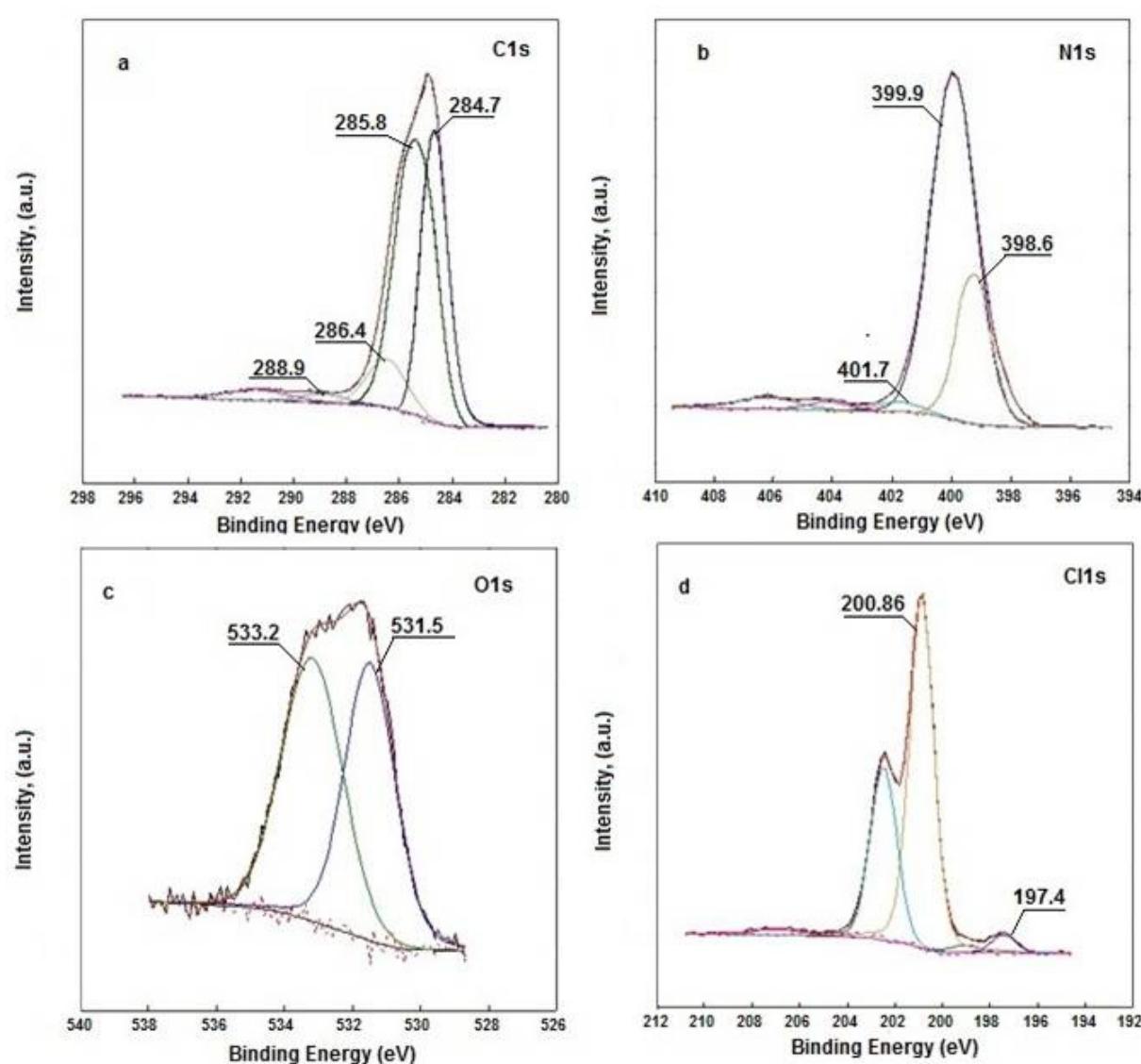


Figure S5. C1s (a) N1s (b), O1s (c) Cl1s (d) poly-DPDCB spectra (XPS).

Table S2. Approximation parameters of high-resolution O1s, Cl2p, N1s, C1s spectra (XPS).

	DPDCB		poly-DPDCB	
Atom	Binding energy, E _b , eV	Intensity I, %	Binding energy, E _b , eV	Intensity I, %
O1s	531.6	85.2	531.5	49.8
	533.3	14.8	533.2	50.2
Cl2p	200.86	87	200.86	94
	197.9	11	197.4	4
N1s	206.9 (Satellite)	2	206.9 (Satellite)	2
	-	-	398.6	23.1
	399.9	86	399.9	69.9
	401.65	12	401.7	2
	-	-	404.1 (Satellite)	2
C1s	406.0 (Satellite)	2	406.0 (Satellite)	3
	284.7	43	284.7	32.1
	285.9	40.4	285.8	44.0
	286.5	3	286.4	16.2
	288.9	10.5	288.9	5.1
	291.3 (Satellite)	3	291.3 (Satellite)	2.5

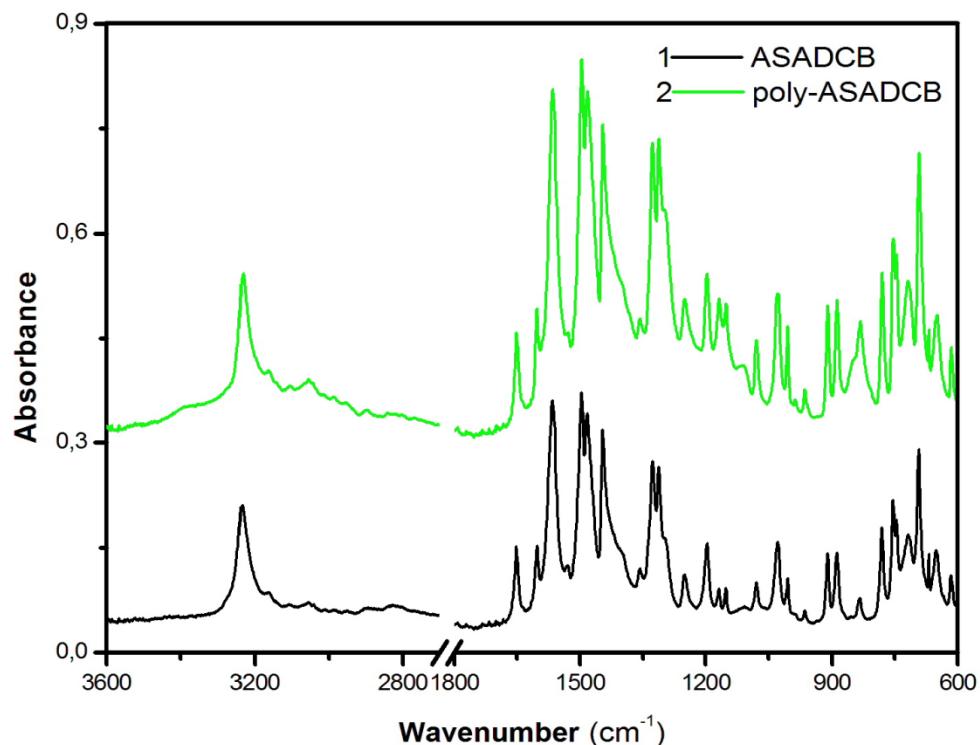


Figure S6. Comparison of ASADCB (1) and poly-ASADCB (2) FTIR spectra.