

Supporting Information

Characterization of Activated Cyclic Olefin Copolymer: Influence of the Ethylene/Norbornene Content on the Physiochemical Properties

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Power (mJ/s*cm ²)	Exposure Time (s)	Radiance (J/cm ²)
16.01	300	4.803
	600	9.606
	900	14.409
19.43	300	5.829
	600	11.658
	900	17.487
21.85	300	6.555
	600	13.11
	900	19.665

Table S1. Dose calculations for UV/O₃ treated COC samples.

Polymer	Area Size (μm)	Native Polymer RMS Roughness		O ₂ Activated Polymer RMS Roughness		Δ RMS Roughness	Δ RMS Roughness Std.
		Average (nm)	Std. Dev (nm)	Average (nm)	Std. Dev (nm)		
COC 8007	2	2.12	0.19	3.07	0.48	0.94	0.52
COC 6013	2	1.23	0.03	2.03	0.54	0.80	0.54
COC 6017	2	2.45	0.08	3.12	0.30	0.67	0.31

Table S2. Raw AFM RMS roughness data for non-treated (native) and O₂ plasma treated COC.

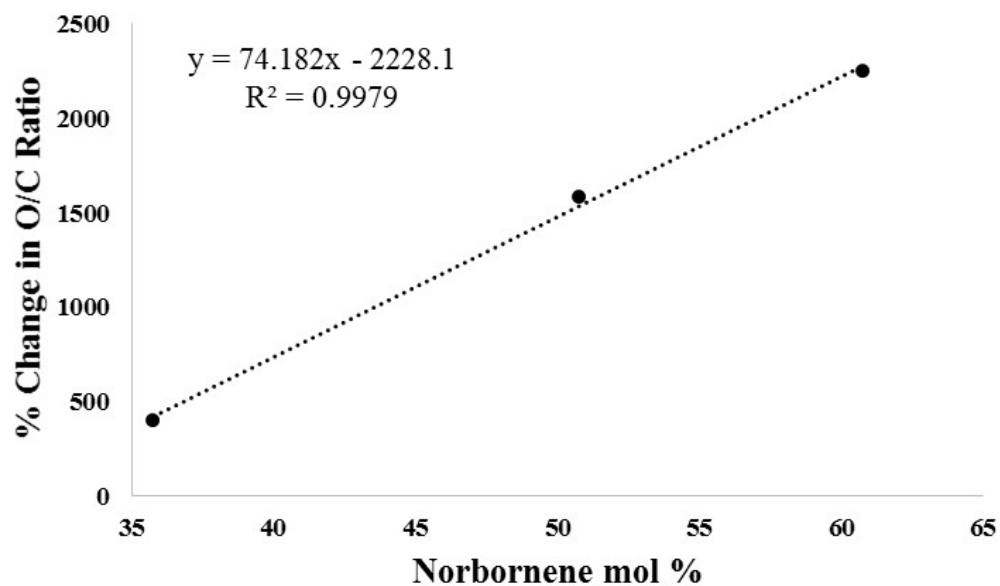


Figure S1. ATR-FTIR determined percent change in O/C ratio for 0 min to 5 min UV/O₃ (21.85 mW/cm²) COC substrates treated versus the norbornene content. A linear best fit function is shown as the dotted line; $R^2 = 0.9979$.

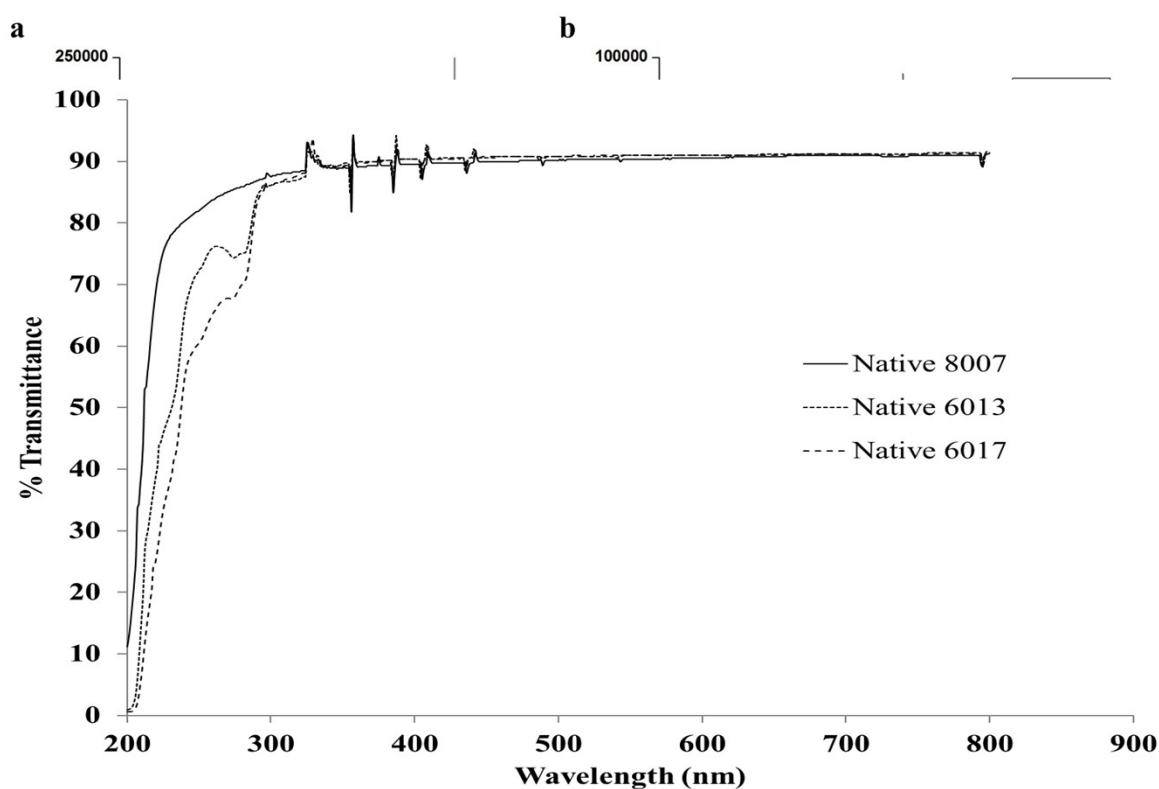


Figure S3. UV-Vis spectra for native COC 8007, 6013 and 6017.