

Supplementary Information

Kinetic Investigation of Thermal Formation Processes of SiOC Glasses Derived from C-Containing Hybrid Polymeric Networks

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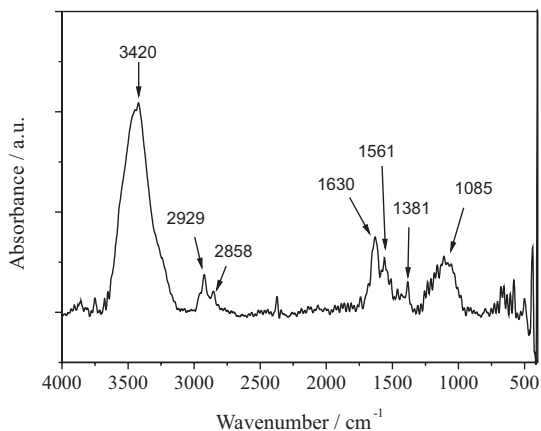


Figure S1. IR spectrum (KBr pellet) of activated charcoal. It is verified the absorptions bands related to hydrogen-bonded OH vibration (3420 cm^{-1}), C-H stretching (2929 and 2858 cm^{-1}) and C=C stretching vibration (1630 and 1561 cm^{-1}). In addition, absorptions corresponding to C-O bonds that can be related to structures composed by alcohol or ether groups were verified in the $1300\text{-}1000\text{ cm}^{-1}$ range.

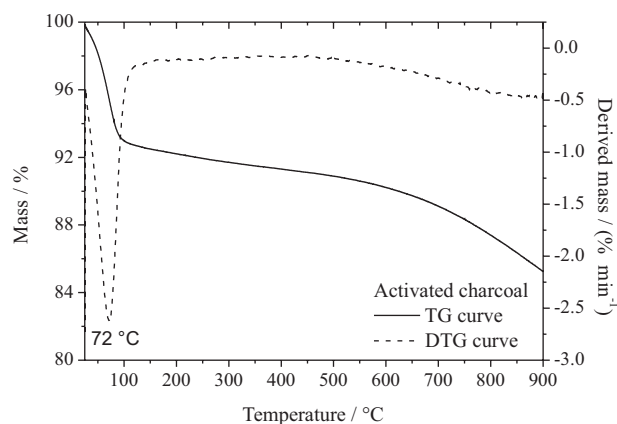


Figure S2. TG and DTG curves of activated charcoal. The TG curve exhibited a degradation step around 72 °C , related to water release. From 100 °C up to 900 °C , there is a continuous loss of mass due to organic impurities own of charcoal, as detected in IR spectrum.

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