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poly(borosiloxanes) (PBS), aiming to use these polymers as precursors of ceramic matrices for the protection of carbon fibers in ceramic matrix composites (CMCs). C/SiOC and C/SiBOC composites were prepared by impregnation of the liquid precursors in unidirectional carbon fiber tows followed by curing, drying and pyrolysis. Results

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Taking into account the above ideas, this work reports the synthesis and thermal characterization of polysiloxanes (PS) and poly (borosiloxanes) (PBS), aiming to use these polymers as precursors of

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ceramic matrices for the protection of carbon fibers in ceramic matrix composites (CMCs). C/SiOC and C/SiBOC composites were prepared by impregnation of the liquid precursors in unidirectional carbon fiber tows followed by curing, drying and pyrolysis.

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In recent years, there is renewed interest on boron modified polysiloxanes and polyborosiloxanes as they serve as precursors for siliconboronoxycarbide (SiBOC) ceramics [1], [2], [3], [4], [5], [6] and as non-halogen additives in flame retardant formulations [7], [8], [9].

Vinyl-functionalized poly(borosiloxane) as precursor for ...

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