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Synthesis and Properties of ortho-Carborane-Appended 4-Amino-Phthalimide and Its Epoxy Resin

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Graphical Abstract

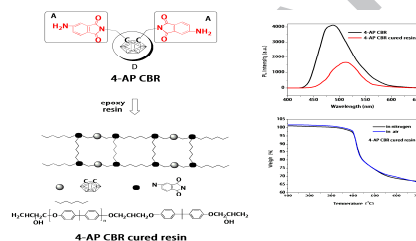
Synopsis

A novel o-carborane derivative with fluorophore 4-amino-phthalimide was successfully synthesized and characterized. This carborane derivative exhibits good solubility and green fluorescence emission. The cross-linked epoxy resin bearing o-carborane cage is prepared using 4-amino-phthalimide containing o-carborane derivative as curing agent, and has yellow-green fluorescence emission and good thermal stability.

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