

Synthesis of microporous carbon particles by selective pyrolysis

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Microporous carbon particles were synthesized by using pyrolysis of styrene-methyl methacrylate copolymer particles. The route involves three steps: synthesis of monodisperse copolymer particles consisting of styrene and methacrylate by emulsion polymerization, selective crosslinking of polystyrene via Friedel-Crafts alkylation, and carbonization. Here, the physicochemical properties of the carbon were characterized by scanning electron microscope, Brunauer-Emmett-Teller, and Raman spectroscopy measurement