

Ethylene-1-Hexene Copolymers Prepared with Silica-Supported Metallocene Catalysts

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Homogeneous metallocene or single-site catalyst causes chunking, sheeting and fouling in slurry or gas olefin polymerization process. It is quite demanding to immobilize the metallocene on the silica to apply to the commercial processes. This study examines the effect of the structural difference of metallocenes immobilized on the silica and polymerization temperature on the polymerization and molecular structure of copolymers produced in ethylene-1-hexene copolymerization.