

## 마이크로반응의 응용을 위한 무기고분자 기반 마이크로채널의 제조

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We report the successful fabrication of inorganic polymer derived microchannels with high organic solvent resistance, optical transparency and biocompatibility via an economic micromolding process, followed by UV and post thermal curing steps. The commercial polyvinylsilazane and allyhydropolycarbosilane mixed with photo and thermal initiators were used to fabricate microchannels. When animal cells were inoculated on the inorganic polymer, better adhesion was shown than that of glass surface. Inorganic polymer microreactor showed comparable performance in photo catalytic decomposition of organic compound and organic synthesis against to commercial glass microreactor.