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FLUOROPOLYMERS RESEARCH AND DEVELOPMENT IN CHINA

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Research and development of fluoropolymers in China during the past two decades are briefly reviewed. The recent work carried out in our Institute will be described as follows: (1) Solution copolymerization of ethylene and tetrafluoroethylene with the addition of perfluoroketone or olefins as the third comonomer to improve the fabricating properties of the product. (2) A simple and novel copolymerization process for making extra-high molecular weight tetrafluoroethylene-hexafluoropropylene copolymer, which shows better mechanical properties at elevated temperature. (3) Starting from tetrafluoroethylene,chlorotrifluoroethylene and hexafluoropropylene, synthesis of perfluorinated sulfonic and carboxylic acid type resins, which are suitable for making ion-exchange membranes. (4) Piezoelectric properties study and some practical applications based on polymeric materials of vinylidene fluoride.