

Transfer of the Fluorous Biphasic Concept to the Palladium-Catalyzed Addition Polymerization of Norbornene

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Z. Naturforsch. **58b**, 1063 – 1068 (2003); received August 6, 2003

Two perfluorinated palladium(II) pre-catalysts of the type $(\text{Ar}^{\text{F}}_3\text{P})_2\text{PdCl}_2$ ($\text{Ar}^{\text{F}} = m\text{-C}_8\text{F}_{17}\text{-C}_2\text{H}_4\text{-C}_6\text{H}_4\text{-}$ and $p\text{-C}_7\text{F}_{15}\text{-CH}_2\text{-O-C}_6\text{H}_4\text{-}$) could be highly activated with the co-catalyst $\text{B}(\text{C}_6\text{F}_5)_3/\text{AlEt}_3$ or methylalumoxane (MAO) for the vinyl/addition polymerization of norbornene. Their recycling was studied by using the FBS concept (*Fluorous Biphasic System*).

Key words: Polymerization, Norbornene, Fluorous Biphasic System, Palladium