**Royal Society Open Science**

**Electronic Supplementary Material**

**Studies on chain shuttling polymerization reaction of nonbridged**

**half-titanocene and bis(phenoxy-imine) Zr binary catalyst system**

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**Figure S1.** The effect of the amount of ZnEt2 on the melting point and melting enthalpy of ethylene polymers obtained with the dual-catalyst system



**Figure S2.** 13C NMR spectra of the polymers (Run 9) at 100 ℃



**Figure S3.** 13C NMR spectra of the polymers (Run 11) at 100 ℃



**Figure S4.** 13C NMR spectra of the polymers (Run 14) at 100 ℃



**Figure S5.** The effect of the 1-octene on the molecular weight and polydispersity of polymers obtained with individual catalysts



**Figure S6.** Theeffect of the 1-octene on the melting point and melting enthalpy of polymers obtained with individual catalysts



**Figure S7.** The effect of ZnEt2 on the melting point and melting enthalpy of copolymers obtained with individual catalysts