Figure 1. FTIR spectra of PPE (KBr) obtained by using $[\text{Cu(bdmpp)}(\text{dppti-H})]_2\text{(dppti)}_2$ as catalyst.

Figure 2. FTIR spectra of PPE (KBr) obtained using $[\text{Cu(bdmpp)}(\text{ppi})]_2$ as catalyst.
Figure 3. FTIR spectra of PPE (KBr) obtained using Cu(dtbp)$_2$(imz)$_4$ as catalyst.

Figure 4. UV-visible spectra of polymerization reaction mixture at the end of the reaction using [Cu(bdmpp)(ppi)]$_2$ as the catalyst.
Figure 5. UV-visible spectra of polymerization reaction mixture at the end of the reaction using [Cu(bdmpp)(dp-H)]_2(dp-H)_2 as the catalyst.

Figure 6. UV-visible spectra of polymerization reaction mixture at the end of the reaction using Cu(dtbp)_2(imz)_4 as the catalyst.
Figure 7. $^1$H NMR of PPE obtained using [Cu(bdmpp)(dppi-H)]$_2$(dppi)$_2$ as the catalyst.

Figure 8. $^1$H NMR of PPE obtained using [Cu(bdmpp)(ppi)]$_2$ as the catalyst.
Figure 9. $^1$H NMR of PPE obtained using Cu(dtbp)$_2$(imz)$_4$ as the catalyst.

Figure 10. TG-DSC diagram of PPE obtained using [Cu(bdmpp)(dpapi-H)]$_2$(dpapi)$_2$ as catalyst.
Figure 11. TG-DSC diagram of PPE obtained using [Cu(bdmpp)(ppi)]$_2$ as catalyst.
Figure 12. TG-DSC diagram of PPE obtained using Cu(dtbp)$_2$(imz)$_4$ as catalyst.