

Supporting information

Novel copolyimides containing 1,4:3,6-dianhydro-D-mannitol unit: Preparation, characterization, thermal, mechanical, soluble and optical properties

Contents

Figure S1. Preparative route of monomers

Figure S2. DSC trace of IMDA.

Figure S3. FTIR spectra of IMCN, IMCO and IMDA.

Figure S4. (A) ^1H NMR spectrum of IMCN; (B) ^{13}C NMR spectrum of IMCN; (C) ^1H NMR spectrum of IMCO; (D) ^{13}C NMR spectrum of IMCO.

Figure S5. (A) ^1H NMR spectrum of IMDA; (B) 500 MHz correlation spectrum (COSY) of IMDA; (C) ^{13}C NMR spectrum of IMDA; (D) 500 MHz heteronuclear single quantum correlation (HSQC) spectrum of IMDA.

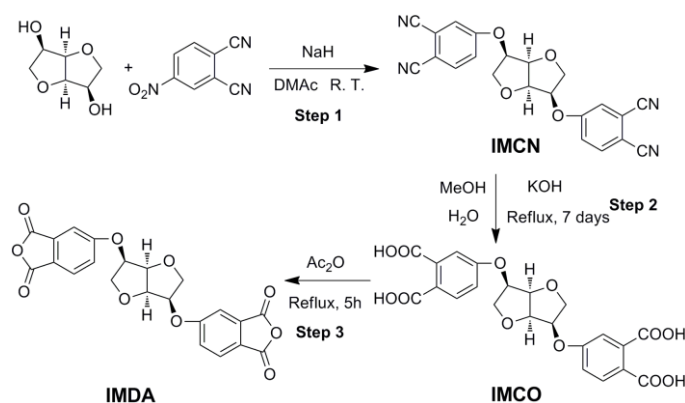


Figure S1. Preparative route of monomers

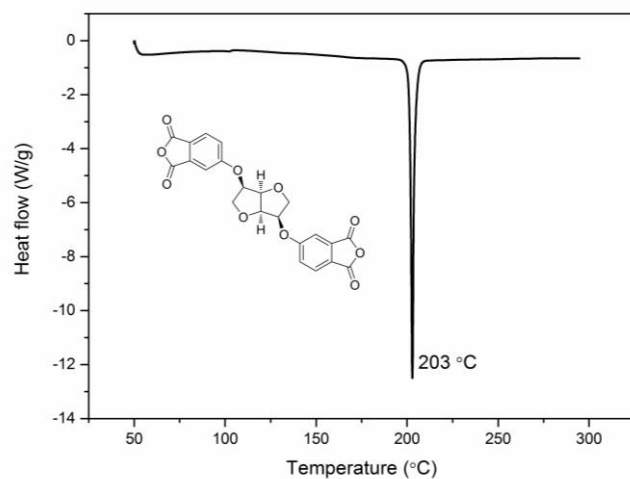


Figure S2. DSC trace of IMDA.

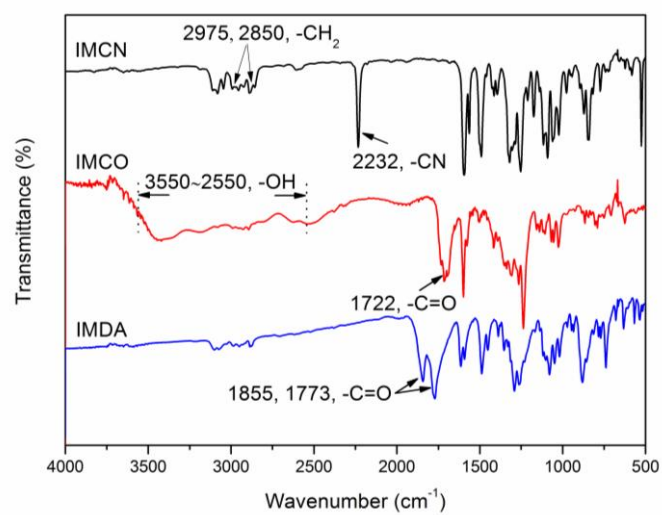


Figure S3. FTIR spectra of IMCN, IMCO and IMDA.

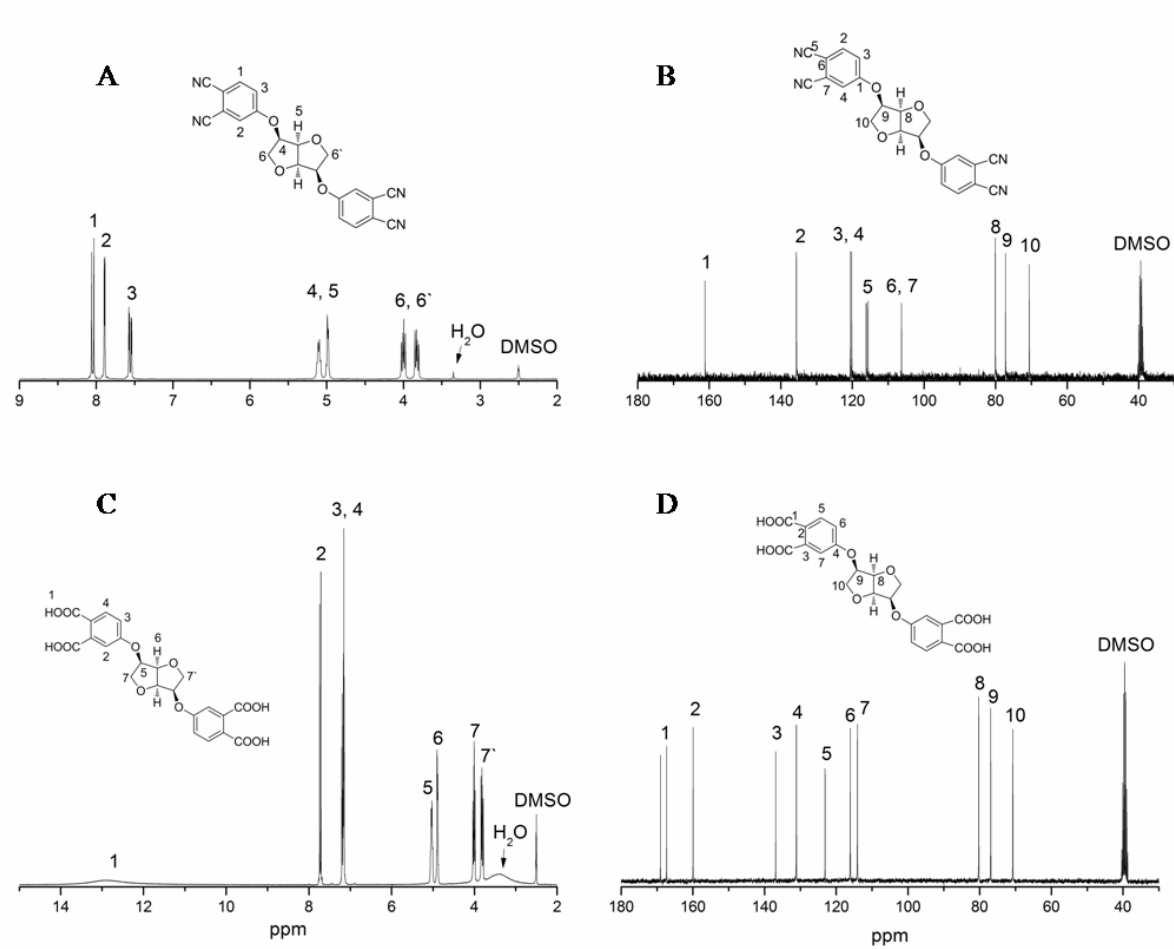


Figure S4. (A) ¹H NMR spectrum of IMCN; (B) ¹³C NMR spectrum of IMCN; (C) ¹H NMR spectrum of IMCO; (D) ¹³C NMR spectrum of IMCO.

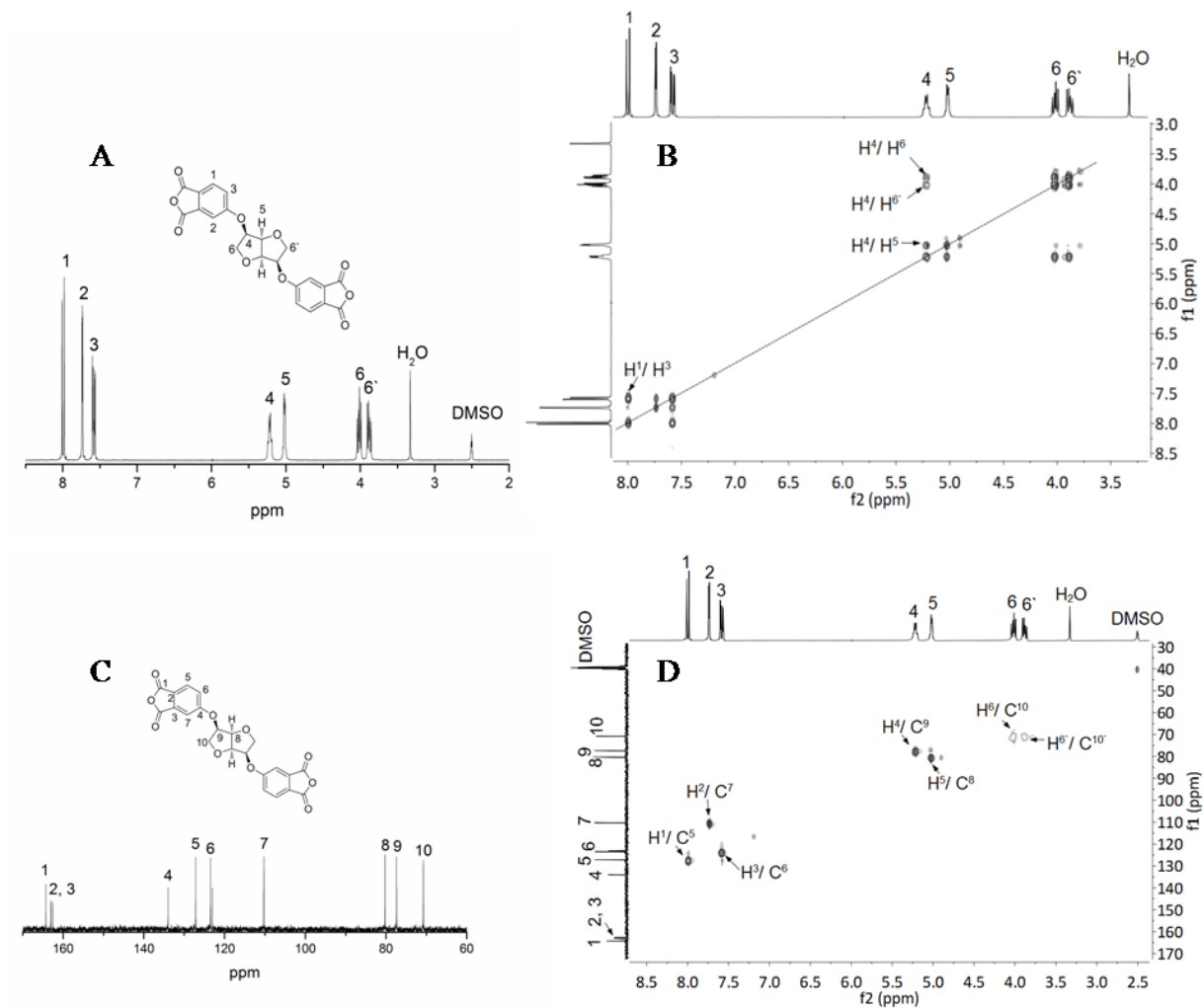


Figure S5. (A) ^1H NMR spectrum of IMDA; (B) 500 MHz correlation spectrum (COSY) of IMDA; (C) ^{13}C NMR spectrum of IMDA; (D) 500 MHz heteronuclear single quantum correlation (HSQC) spectrum of IMDA.