Fig 1. Overlay of the DSC data observed for DLPC, DMPC, DPPC and DSPC heated from -50 to 240 °C at 10 °C min⁻¹ after removal of moisture from the samples.
Fig. 2 XRPD results for the PCs after heating to 140 °C and cooling to ambient temperature (3 times) for each sample. (a) Higher angle diffractogram and (b) lower angle diffractogram.
Fig. 3 Total, reversing and non-reversing TMDSC curves obtained for (a) DLPC, (b) DMPC, (c) DPPC and (d) DSPC. Data were obtained at an underlying heating rate of 2 °C min\(^{-1}\) and temperature amplitude of 1.5 °C every 60 s, using a sample size of 8.5 ± 0.4 mg.
Fig. 4 Plots of activation energy ($E_a$) vs the degree of conversion ($\alpha$) for the chain melting transition ($T_m$) of DLPC (●), DMPC (○), DPPC (▲) and DSPC (□).