

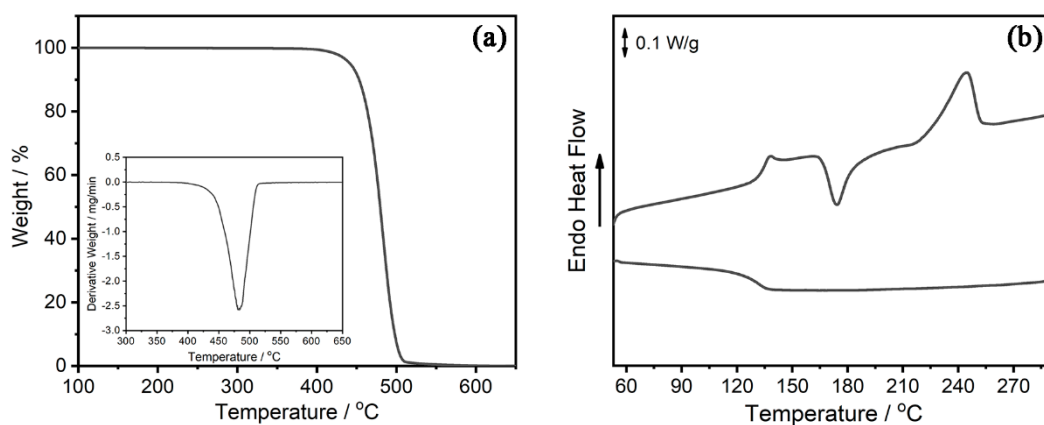


Figure 1. (a) The thermal gravity analysis (TGA) curves of PAPACM12, inset: the derivative thermal analysis (DTA) curves, (b) cooling scans and Secondary heating scans of PAPACM12.

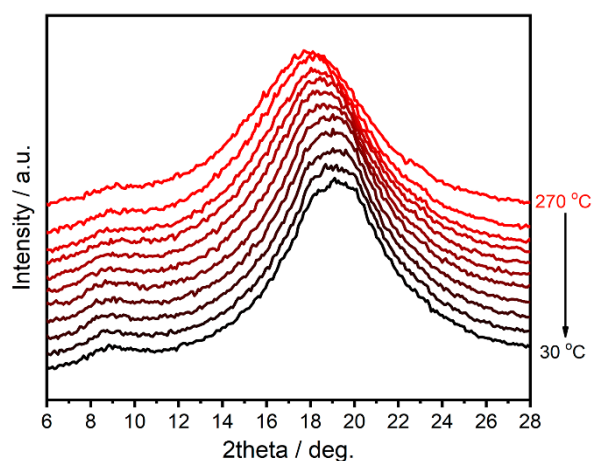


Figure S2. 1D-integrated WAXD profiles in the meridional direction of PAPACM12 upon cooling. Note: WAXD tests were carried out on a Xeuss 2.0 HR SAXS/WAXS system (Xenocs SA, France) with Ni-filtered Cu K α radiation ($\lambda=0.154$ nm).

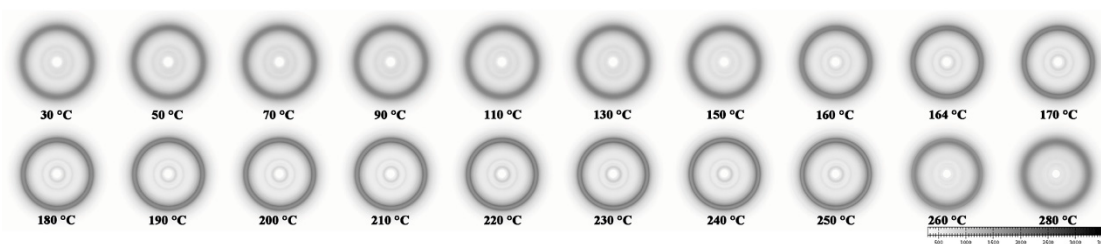


Figure S3. 2D WAXD images of PAPACM12 during heating process with temperatures marked.