Supporting Information

Enhancing the processability of Polychlorotrifluoroethylene via Copolymerization with Perfluoropropyl Vinyl Ether

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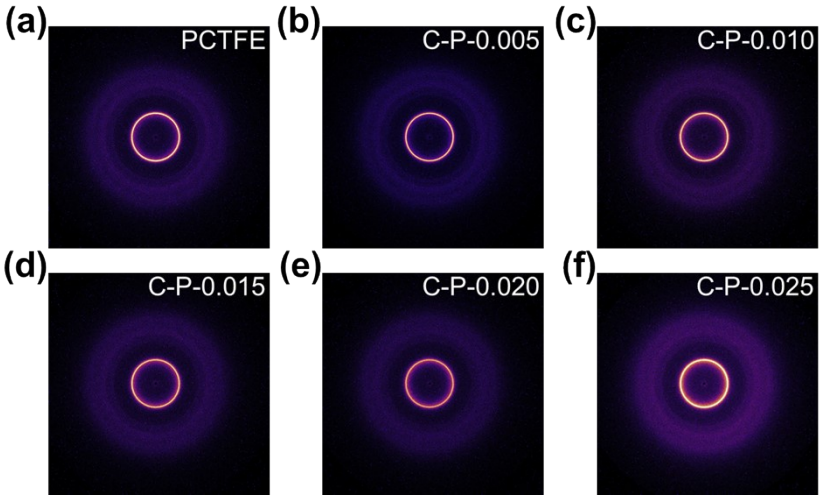

Figure S1. 2D WAXS pattern of C-P copolymers with different PPVE concentrations.

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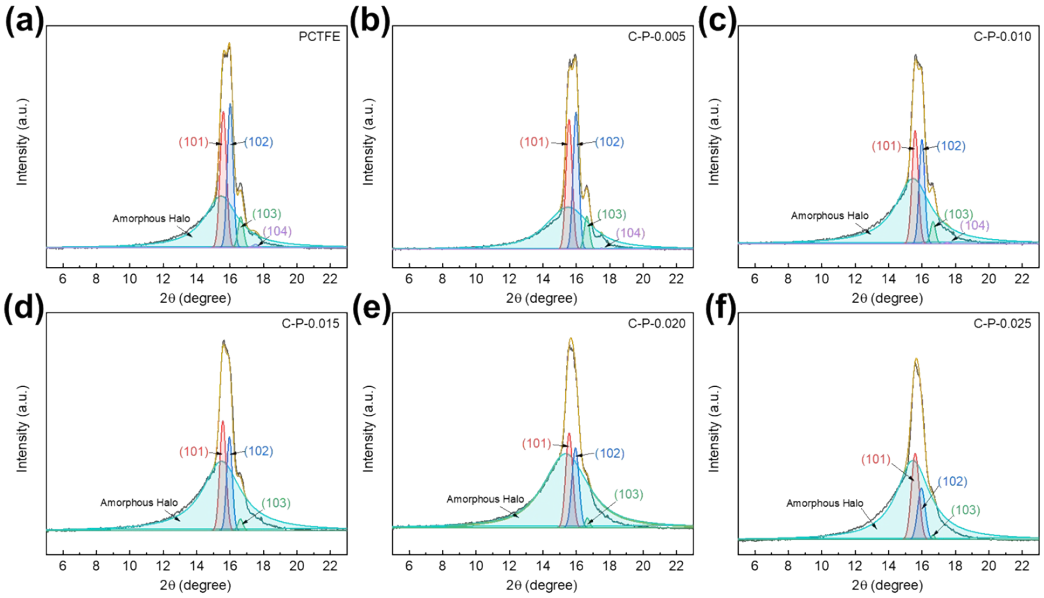

Fig. S2 XRD deconvoluted pattern for C-P copolymers with different PPVE concentrations.

Fig. S1 presents a 2D WAXS pattern. Through integration of this 2D pattern, a 1D WAXS profile can be obtained. Subsequently, peak deconvolution analysis is performed on the one-dimensional WAXS profile to identify the crystalline and amorphous peaks along with their respective areas. This allows for the calculation of the material's crystallinity based on the area ratio of the crystalline peaks to the total scattering intensity (Fig. S2).

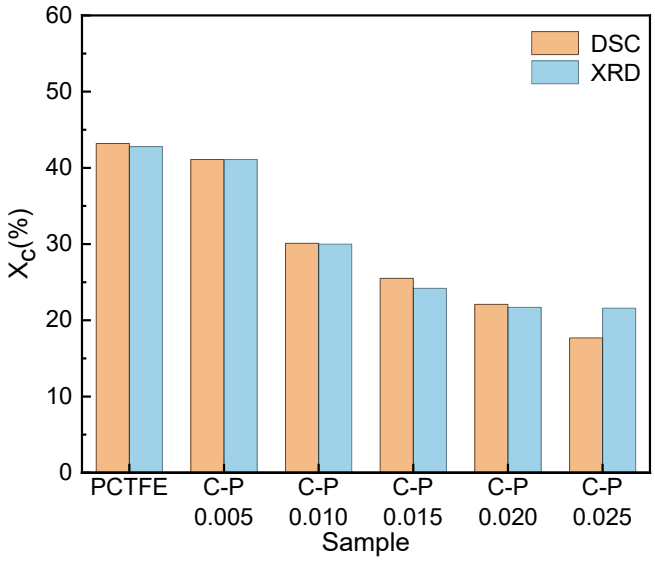

Fig. S3 Comparison of the crystallinity of C-P copolymers with different PPVE concentrations calculated by XRD and DSC.

Finally, the crystallinity of the material obtained through DSC testing will be compared with the crystallinity of the material calculated via XRD.