Supporting Information

Facile Synthesis of Well-controlled Poly(glycidyl methacrylate) and its Block Copolymers via SARA ATRP at Room Temperature

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Results

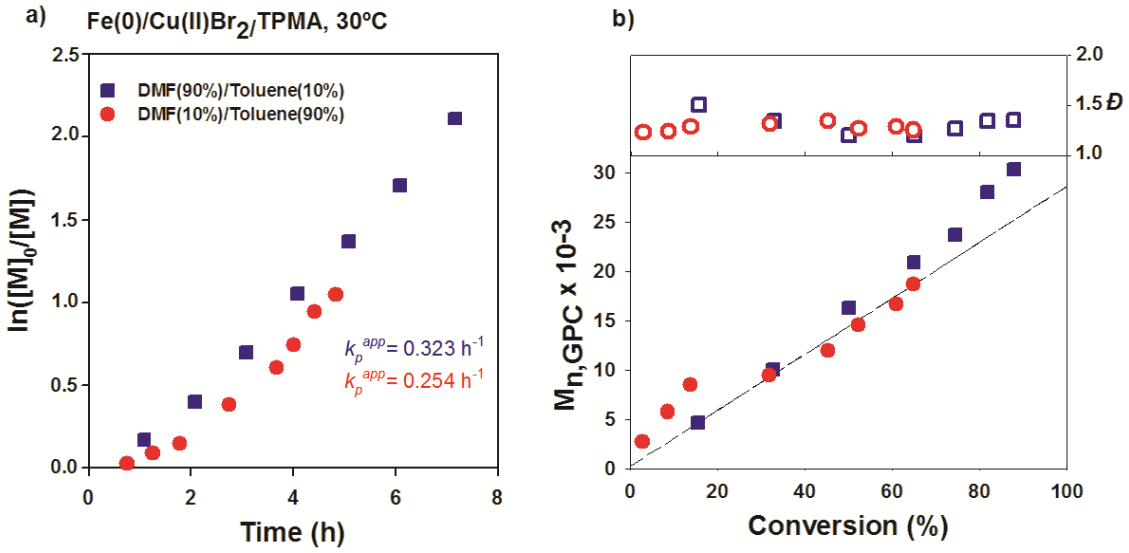

Fig. S1 SARA ATRP of GMA in toluene/DMF = 10/90 (v/v) and toluene/DMF = 90/10 (v/v) at 30ºC. (a) First-order kinetic plot, (b) evolution of MWs and M_w/M_n with conversion (the dashed line represents the theoretical MW at a given conversion). Reaction conditions: $[GMA]_0/[EBiB]_0/[Fe(0)]_0/[CuBr_2]_0/[TPMA]_0$=200/1/1/0.1/1.1 (molar).

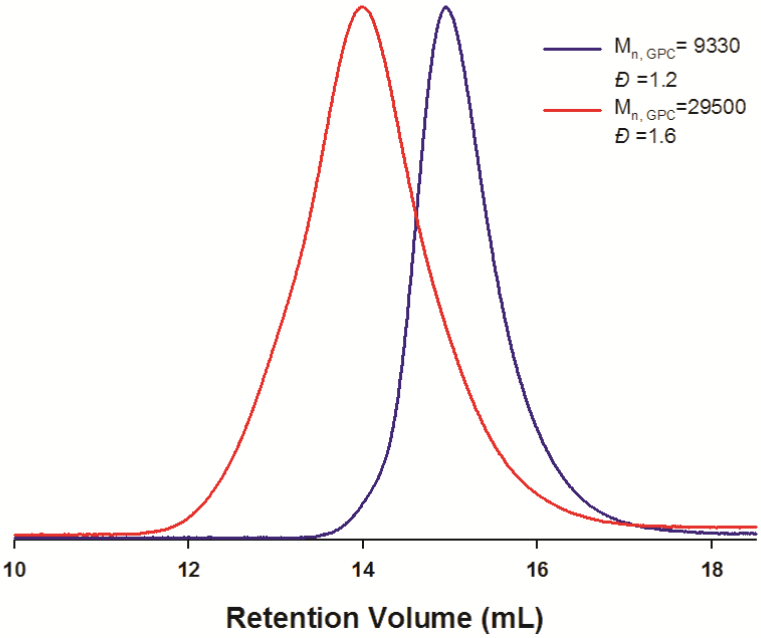

Fig. S2 GPC traces of PGMA before (blue line) and after (red line) the chain extension experiment.

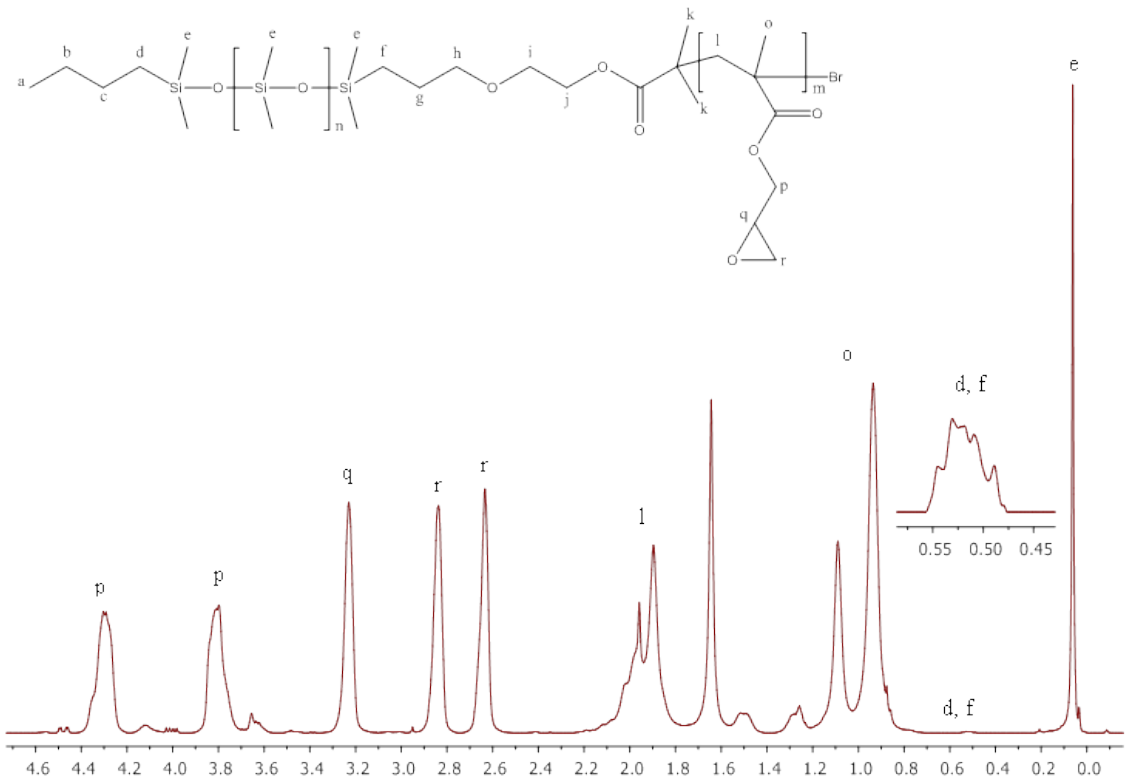

Fig S3 ^{1}H-NMR spectrum of the PDMS-*b*-PGMA obtained ($M_{n,GPC}$= 33900 g mol^{-1}; $Đ$ = 1.5; $M_{n,NMR}$=27500 g mol^{-1}); in $CDCl_3$.

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