

Table S1

Table S1. Thermal properties of PXBS sample after cross-linking and samples of insoluble cross-linked PXBS fraction left after extraction (PXBS_GEL) (A) and thermal properties of the PXBS sample taken after polycondensation (PXBS_co) and samples of soluble PXBS fraction obtained by extraction (PXBS_SOL) (B), first heating

Sample /Material	PXBS_GEL				Sample /Material	PXBS_SOL			
	T_{g1}	Δc_p	T_{m1}	ΔH_{m1}		T_{m2}	ΔH_{m2}	T_{m3}	ΔH_{m3}
	[°C]	[J/g°C]	[°C]	[J/g]		[°C]	[J/g]	[°C]	[J/g]
PXBS_cross-linked	-29.9	0.412	16.8	26.3	PXBS_co	19.1	26.4	44.8	50.9
PXBS_THF	-28.3	0.550	11.1	9.1	PXBS_THF	16.5	44.2	n.o	n.o
PXBS_DMSO	-31.7	0.439	14.7	28.2	PXBS_DMSO	20.4	33.3	47.9	18.6
PXBS_HFIP	-25.8	0.342	18.4;41.8	26.4;1.6	PXBS_HFIP	20.1	29.8	41.2	14.8
PXBS_TFA	-32.3	0.143	9.1;20.8	40.3	PXBS_TFA	11.1;25.2	19.8	n.o	n.o.

n.o. – not observed

where: T_{g1} - glass transition temperatures; Δc_p - change of the heat capacity at glass transition, T_{m1} , T_{m2} , T_{m3} - melting temperature; ΔH_{m1} , ΔH_{m2} , ΔH_{m3} - heat of melting at T_{m1} , T_{m2} , T_{m3} .