

Poly(propylene-*co*-1-pentene-*co*-1-heptene) terpolymers: mechanical and rheological behavior

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Supporting Information

Table S1. Compositional triads and propylene average length for terpolymers with 1-pentene and 1-heptene.

Sample	PPP	PPX	XPX	PXP	XXP	XXX	$\frac{[XXP]}{[XXP]+[PXP]}$ ($\times 10^2$)	n_p
T4-75Pe-25Hp	89.4	6.7	0.2	3.7	0.0	0.0	0.0	27
T4-50Pe-50Hp	88.9	7.1	0.2	3.8	0.0	0.0	0.0	26
T4-25Pe-75Hp	90.7	5.9	0.1	3.3	0.0	0.0	0.0	32
T6-75Pe-25Hp	80.9	11.5	0.8	5.6	1.2	0.0	17.6	14
T6-50Pe-50Hp	83.0	10.1	0.4	5.8	0.7	0.0	10.8	17
T6-25Pe-75Hp	81.2	11.3	0.5	6.4	0.6	0.0	8.6	15
T10-75Pe-25Hp	70.7	16.9	1.0	8.4	3.0	0.0	26.3	9
T10-50Pe-50Hp	71.7	16.3	1.3	7.9	2.7	0.0	25.5	9
T10-25Pe-75Hp	71.4	16.0	1.3	10.2	1.1	0.0	9.7	10
T13-75Pe-25Hp	66.7	18.6	1.3	10.2	3.2	0.0	23.9	8
T13-50Pe-50Hp	65.6	18.8	1.8	10.3	3.5	0.0	25.4	8
T13-25Pe-75Hp	66.4	17.8	1.7	11.2	2.8	0.0	20.0	8
T16-75Pe-25Hp	59.2	21.0	2.5	11.5	5.7	0.0	33.1	6
T16-50Pe-50Hp	60.5	20.4	2.6	12.2	4.4	0.0	26.5	7
T16-25Pe-75Hp	58.6	20.9	2.2	13.4	4.8	0.0	26.4	6

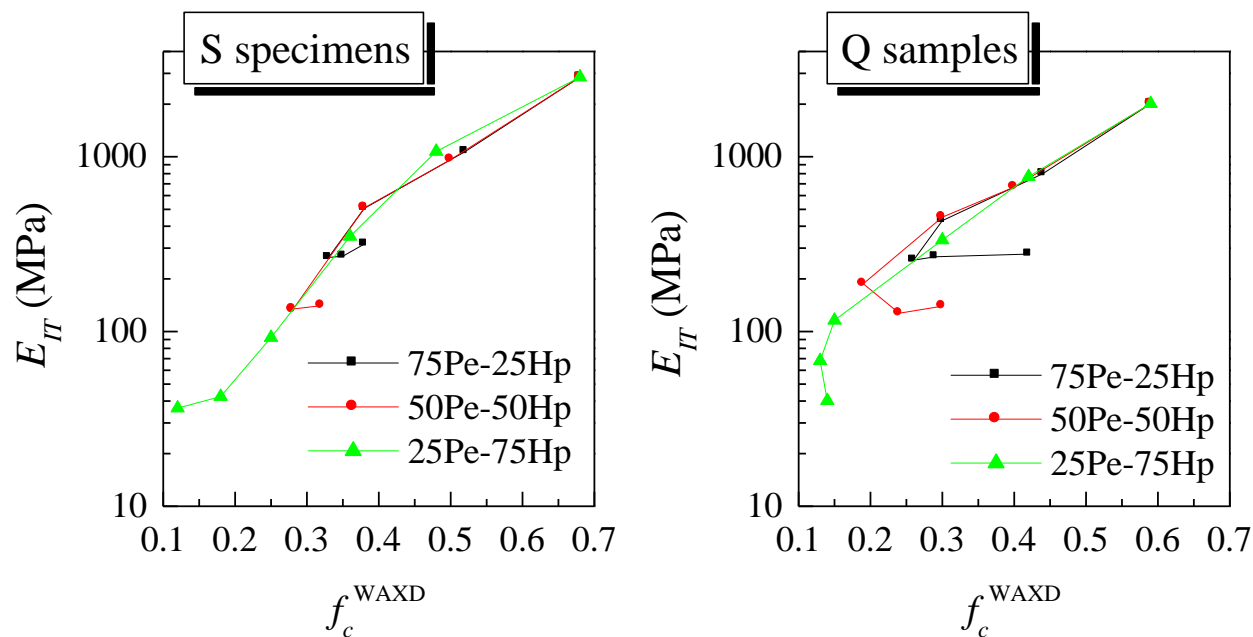


Figure S1. Dependence of indentation modulus on crystallinity determined from X ray diffraction measurements for the Tx-50Pe-50Hp terpolymers under study.

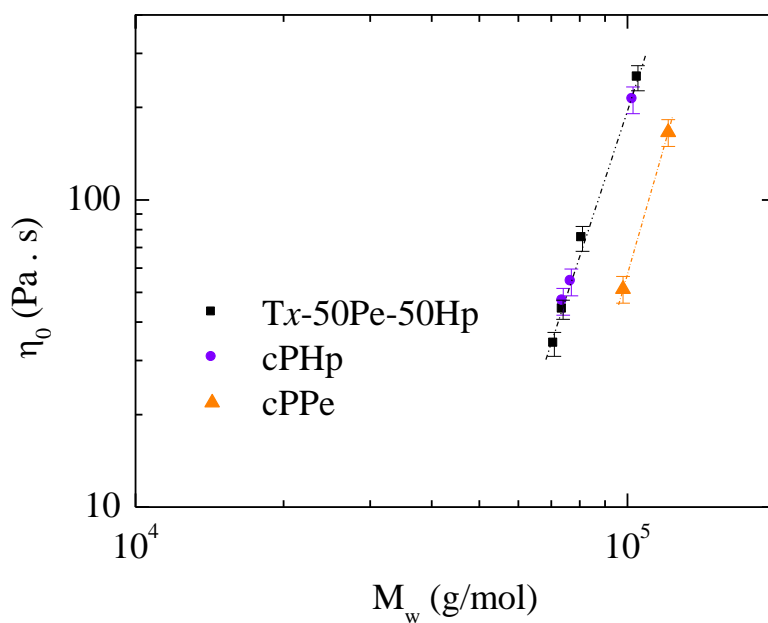


Figure S2. Dependence of zero shear-rate viscosity on molecular weight for the Tx-50Pe-50Hp terpolymers and propylene copolymers with 1-pentene (cPPE) and 1-heptene (cPHp).

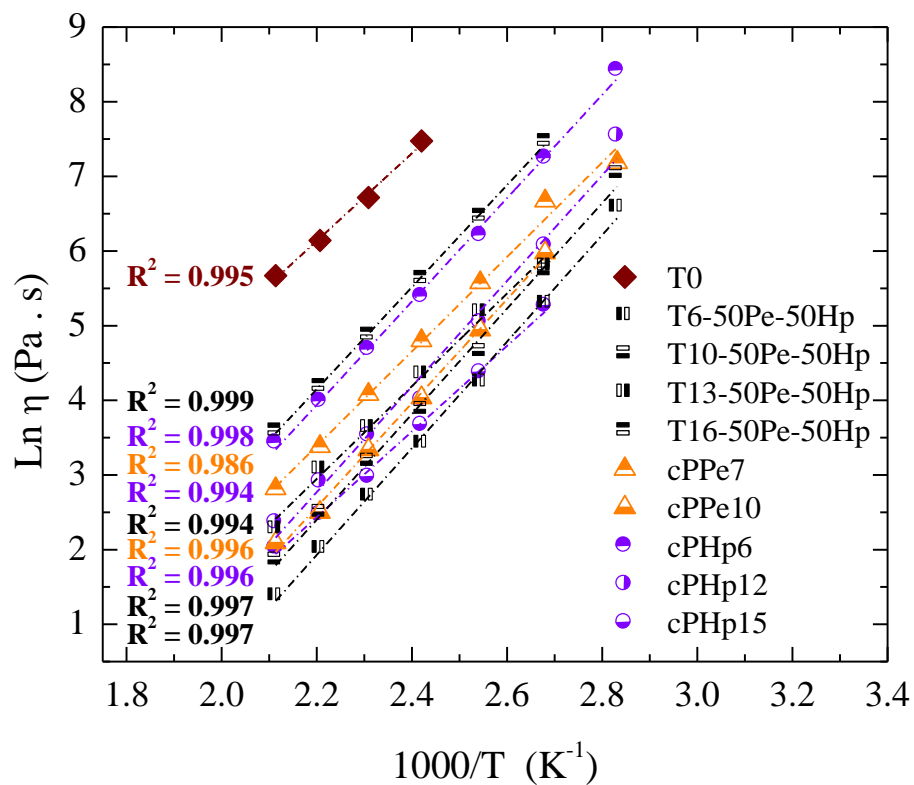


Figure S3. Arrhenius plots for the Tx-50Pe-50Hp terpolymers and propylene copolymers with 1-pentene (cPpE) and 1-heptene (cPHp).