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Supporting Information

Table S1: Vibrational Modes from 1,4 poli(cis-isoprene)

NR (cm^{-1})	Relative Intensity	NR/SF_6 (cm^{-1})	Relative Intensity	Assignment[1,2,3]
738	0.193	742	0.240	CH_2 rocking
760	0.141	760	0.186	CH_2 rocking
834	1.004	834	0.960	=CH bending out of plane or deformation of C=C–H
889	0.103	889	0.137	CH_3 wagging
1012	0.223	1012	0.170	C-CH_2 Stretching
1038	0.297	1038	0.239	CH_3 rocking
1080	0.427	1080	0.334	C–O Stretching of ester
1091	0.401	1091	0.316	C–CH_2 stretching or CH_2 twisting
1126	0.329	1127	0.263	CH_2 wagging
1589	0.227	1589	0.126	C-N stretching + deformation N-H of secondary Amide
1662	0.368	1662	0.322	Primary Amide, C=O Stretching
2850	1.102	2852	0.953	C–H Angular deformation on CH_2
2918	1.319	2916	1.117	C–H Symmetric deformation on –CH_3
2960	1.179	2960	1.080	C–H Asymmetric deformation on –CH_3
3394	0.181	3394	0.104	N–H Symmetric stretching

[1]Healey AM, Hendra PJ, West YD. Polymer 1996; 37(18): 4009-4024.
[2]Nallasamy P, Mohan S. The Arabian Journal for Science and Engineering 2004; 29(1ª).
[3]Rippel MM, Lee L-T, Leite CAP, Galembeck F. Journal of Colloid and Interface Science 2003; 268: 330-340.