Table 3. Test set, experiments 1-3.

Polymer Molar Tg Exp. 1 Exp. 2 Exp. 3

fraction (K) Out  Out  Out 

of *r* dyads (K) (K) (K) (K) (K) (K)

Poly(ethyl acrylate) 0.6 249 285 44 265 32 257 23

0 248 259 30 234 34 235 25

Poly(*ter*butyl acrylate) 0.6 316 333 29 325 36 336 30

Poly(3-pentyl acrylate) 0.6 267 248 28 248 38 251 31

Poly(2-ethylbutyl acrylate) 0.6 223 237 22 235 27 234 26

Poly(4-thiapentyl acrylate) 0.6 208 208 21 203 17 209 15

Poly(1H,1H-nonafluoropentyl acrylate) 0.6 236 228 18 231 15 228 18

Poly(5,5,5-trifluoro-3-oxapentyl acrylate) 0.6 235 235 24 229 19 235 18

Poly(2-cyanobutyl acrylate) 0.6 384 309 88 325 67 328 69

Poly(6-cyano-3-thiahexyl acrylate) 0.6 215 224 28 229 23 242 38

Poly(2-ethoxyethyl acrylate) 0.6 223 219 10 208 20 212 23

Poly(butyl butoxycarbonyl methacrylate) 0.7 298 310 43 311 36 302 35

Poly(butyl chloroacrylate) 0.6 330 335 24 338 22 350 28

Poly(methyl a-cyanoacrylate) 0.6 433 397 42 412 25 410 33

Poly(ethyl methacrylate) 0.85 359 335 28 328 37 331 37

0.7 338 328 19 319 28 323 28

0 281 288 16 277 23 285 25

Poly(*iso*butyl methacrylate) 0.7 326 310 32 311 29 309 33

0 281 275 27 272 27 272 27

Poly(octyl methacrylate) 0.7 253 244 17 249 21 254 12

Poly(3,3-dimethylbutyl methacrylate) 0.7 318 293 37 310 33 311 25

Poly(diethylaminoethyl methacrylate) 0.7 289 302 27 286 25 291 26

Poly(1H,1H,7H-dodecafluoroheptyl methacrylate) 0.7 286 280 15 278 13 280 16

Poly(2-hydroxypropyl methacrylate) 0.7 349 348 38 358 35 364 50

Poly(benzyl acrylate) 0.6 285 304 28 298 27 296 28

Poly(biphenyl-4-yl acrylate) 0.6 383 363 30 351 37 357 30

Poly(4-cyanobenzyl acrylate) 0.6 317 337 40 330 39 333 36

Poly(3-chlorophenyl acrylate) 0.79 312 333 31 338 26 336 27

Poly[methyl 2-(acryloyloxy)benzoate] 0.6 319 314 19 321 22 321 15

Poly[methyl 3-(acryloyloxy)benzoate] 0.6 311 299 16 314 15 314 14

Poly[methyl 4-(acryloyloxy)benzoate] 0.6 340 327 22 323 21 323 26

Poly(phenyl methacrylate) 0.66 400 383 22 377 26 383 19

Poly[ethyl 4-(methacrylamido)benzoate] 0.7 441 441 23 421 31 425 37

Poly(2,4-dimethylphenyl methylacrylate) 0.7 384 386 33 385 29 380 14

Poly(2,4-dichlorophenyl methylacrylate) 0.7 391 383 21 386 18 384 16

Poly(3-methoxyphenyl methacrylate) 0.7 343 364 24 380 40 385 43

Poly(4-methoxyphenyl methacrylate) 0.7 379 383 16 381 11 387 13

Table 3. continued.

Polymer Molar Tg Exp. 1 Exp. 2 Exp. 3

fraction (K) Out  Out  Out 

of *r* dyads (K) (K) (K) (K) (K) (K)

Poly[2-((4’-methoxybiphenyl-4-yl)oxy)ethyl acrylate] 0.6 353 331 25 324 36 314 45

Poly[6-((biphenyl-4-yl)oxy)hexyl acrylate] 0.6 321 310 22 320 8 315 9

Poly[4-(4-(4-nitrophenyldiazenyl)phenoxy)butyl acrylate] 0.6 310 308 26 309 19 309 22

Poly[6-((4’-cyanobiphenyl-4-yl)oxy)hexyl acrylate] 0.6 315 317 7 312 13 317 8

Poly[6-(4-(4-methoxyphenyldiazenyl)phenoxy)hexyl 0.6 319 319 12 314 13 313 8

acrylate]

Poly[6-(4-(4-dimethylaminophenyldiazenyl) 0.6 327 317 17 308 24 313 15

phenoxy)hexyl acrylate]

Poly[8-((4’-((S)-2-methylbutoxy)biphenyl-4-yl)oxy) 0.6 323 295 41 315 22 305 40

octyl acrylate]

Poly[4-(2-methoxy-2-oxoethyl)phenyl methacrylate] 0.7 354 375 27 378 27 380 28

Poly[4-(methacryloyloxy)benzoic acid] 0.7 380 418 41 416 49 412 40

Poly[5-((4’-cyanobiphenyl-4-yl)oxy)pentyl methacrylate] 0.7 333 336 14 340 24 337 21

Poly[4-(phenyldiazenyl)phenyl methacrylate] 0.7 374 413 41 404 34 408 37

Poly[4-(4-cyanophenyldiazenyl)phenyl methacrylate] 0.7 363 416 57 401 49 405 49

Poly[6-(4-(4-cyanophenyldiazenyl)phenoxy)hexyl 0.7 333 339 10 333 18 344 16

methacrylate]

Poly[2-(2-(2-((4-cyanophenyldiazenyl)phenoxy) 0.7 310 320 15 317 22 324 27

ethoxy)ethoxy)ethyl methacrylate]

Poly [11-(4-(4-dimethylaminophenyldiazenyl) 0.7 344 329 21 323 30 308 43

phenoxy)undecyl methacrylate]

Poly[benzyl 4-(methacryloyloxy)benzoate] 0.7 356 399 53 403 49 401 51

Poly[6-(4-(4-butoxyphenyldiazenyl)phenoxy)hexyl 0.7 352 337 19 344 16 344 12

methacrylate]