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Layered glass transition temperature in polymer thin films HAOBIN LUO, DILIP GERSAPPE, Dept of Materials Science and Engg, SUNY at Stony Brook, NY 11794 — We use a nanofiller particle as a probe in Molecular Dynamics simulations of the glass transition temperature in thin polymer films. We find that the supported surface effect persists for many Rg's into the polymer film, while the free surface effect dissappears within a few monomer distances. We also report on calculations in which the probe particle is moved in an oscillatory manner.

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