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Suppression of Aging and Plasticization in Highly Permeable Polymers

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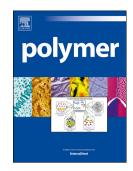
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Suppression of aging and plasticization by embedding nanoparticles



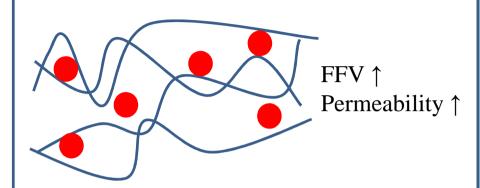


FFV ↑ Permeability ↑

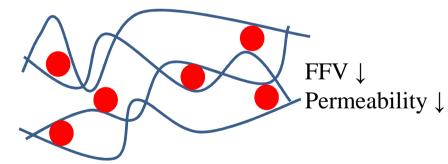
Time $\gg 0$







Time \gg 0



Polymer chains



Nanoparticles

FFV

Fractional free volume

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