

Natural Rubber - Filler Interaction: What are the Parameters?

Alan Jenkin Chan,^{*,†,‡,¶} Karine Steenkeste,^{†,¶} Alexis Canette,[§] Marie Eloy,[‡]
Damien Brosseau,[‡] Fabien Gaboriaud,[‡] and Marie-Pierre Fontaine-Aupart^{†,¶}

[†]*Université Paris-sud, Institut des Sciences Moléculaires d'Orsay, UMR 8214, Orsay, France,* [‡]*Manufacture Française des Pneumatiques Michelin, 23 place des Carmes Déchaux, 63040 Clermont Ferrand Cedex 9, France,* [¶]*CNRS, Orsay, France, and* [§]*INRA AgroParisTech, Micalis, UMR 1319, Massy, France*

E-mail: alan.chan@u-psud.fr

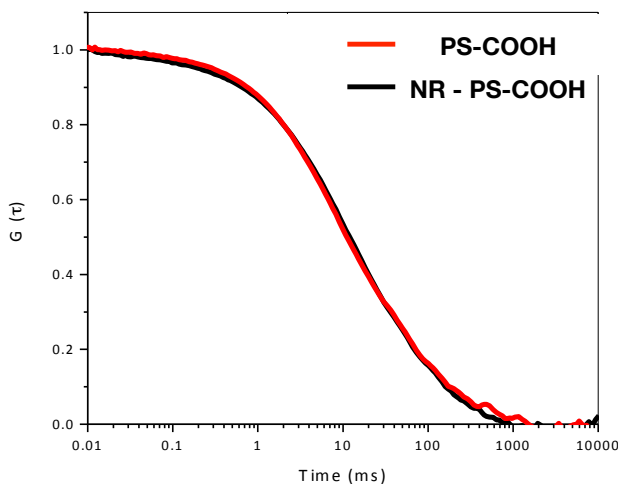
*To whom correspondence should be addressed

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Supporting Information Available

Supporting Information 1: Movie sequence of the NR-100nm plain silica heteroaggregation process taken in real-time (4 hours) in NaNO_3 (left) and MgSO_4 (right) solutions at 100mM ionic strength. The movie is taken $\sim 10\mu\text{m}$ above the cover slip surface (substrate).

Supporting Information 2: Normalized autocorrelation curves of the mixed solutions of polystyrene (PS) COOH modified particles ($d=100\text{nm}$) in absence (red line) and presence (black line) of NR particles. Identical curves are obtained for all three suspensions (water, NaNO_3 and MgSO_4 at 100mM ionic strength). The absence of interaction was also observed for the $d=20\text{nm}$ PS particles.



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