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Nanoscale reinforcement of polyhedral oligomeric silsesquioxane (POSS) in polyurethane elastomer

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#	Paper	IF	Citations
174	Synthesis and Characterization of Segmented Polyurethanes Containing Polyhedral Oligomeric Silsesquioxanes Nanostructured Molecules. <b>2000</b> , 12, 565-571		73
173	Crystallization studies of isotactic polypropylene containing nanostructured polyhedral oligomeric silsesquioxane molecules under quiescent and shear conditions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2001</b> , 39, 2727-2739	2.6	128
172	Synthesis and characterization of an isocyanate functionalized polyhedral oligosilsesquioxane and the subsequent formation of an organic-inorganic hybrid polyurethane. <b>2002</b> , 124, 13998-9		155
171	Viscoelastic and mechanical properties of vinyl ester (VE)/multifunctional polyhedral oligomeric silsesquioxane (POSS) nanocomposites and multifunctional POSS/styrene copolymers. <i>Polymer</i> , <b>2002</b> , 43, 4167-4176	3.9	113
170	Properties of epoxy networks derived from the reaction of diglycidyl ether of bisphenol A with polyhedral oligomeric silsesquioxanes bearing OH-functionalized organic substituents. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2003</b> , 41, 1451-1461	2.6	101
169	Synthesis and characterization of fillers of controlled structure based on polyhedral oligomeric silsesquioxane cages and their use in reinforcing siloxane elastomers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2003</b> , 41, 3314-3323	2.6	106
168	ABA triblock copolymers containing polyhedral oligomeric silsesquioxane pendant groups: synthesis and unique properties. <i>Polymer</i> , <b>2003</b> , 44, 2739-2750	3.9	193
167	Epoxy Networks Containing Large Mass Fractions of a Monofunctional Polyhedral Oligomeric Silsesquioxane (POSS). <i>Macromolecules</i> , <b>2003</b> , 36, 3128-3135	5.5	188
166	POSS Based Electrolytes for Rechargeable Lithium Batteries. <b>2004</b> , 7, A88		39
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164	Miscibility and viscoelastic properties of acrylic polyhedral oligomeric silsesquioxane/poly(methyl methacrylate) blends. <i>Polymer</i> , <b>2005</b> , 46, 4743-4752	3.9	141
163	A novel and facile method for direct synthesis of cross-linked polysiloxanes by anionic ring-opening copolymerization with Ph <sub>12</sub> -POSS/D4/Ph <sub>8</sub> D4. <i>Polymer</i> , <b>2005</b> , 46, 5317-5323	3.9	19
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161	Thermal and mechanical properties of polyhedral oligomeric silsesquioxane (POSS)/polycarbonate composites. <i>Polymer</i> , <b>2005</b> , 46, 11640-11647	3.9	238
160	Morphology and Thermomechanical Properties of Organic-Inorganic Hybrid Composites Involving Epoxy Resin and an Incompletely Condensed Polyhedral Oligomeric Silsesquioxane. <i>Macromolecules</i> , <b>2005</b> , 38, 5088-5097	5.5	213
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157	Wettability of Polyhedral Oligomeric Silsesquioxane Nanostructured Polymer Surfaces. <b>2005</b> , 26, 1233-1236	63
156	Properties of poly(ethylene terephthalate) containing epoxy-functionalized polyhedral oligomeric silsesquioxane. <i>Polymer International</i> , <b>2005</b> , 54, 47-53	3-3 73
155	Structure, Dynamic Properties, and Surface Behavior of Nanostructured Ionomeric Polyurethanes from Reactive Polyhedral Oligomeric Silsesquioxanes. <i>Macromolecules</i> , <b>2005</b> , 38, 5569-5574	5-5 122
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34	Thermal and Lithographic Performance of Silsesquioxane with Cycloaliphatic Epoxy-Siloxane Hybrid Spacer for Soft Lithography. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1700371	3.9	
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31	Polyurethane/POSS Hybrid Materials. <i>Springer Series on Polymer and Composite Materials</i> , <b>2018</b> , 167-204.	0.9	4
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22	Formation of POSS-POSS interactions in polyurethanes: From synthesis, morphologies to shape memory properties of materials. <i>Polymer</i> , <b>2019</b> , 160, 82-92	3.9	28
21	Silicon-Based Nanomaterials and Their Polymer Nanocomposites. <b>2019</b> , 261-305		10
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