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Fillers and Filled Polymers (Macromolecular Symposia): I ...
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Fillers, Filled Polymers and Polymer Blends ...
A specific application of additives and fillers allows to tailor polymer properties and extend of the application range of polymeric materials. The scientific expertise of the KeyLab Polymer Additives and Fillers includes the application of organic and inorganic additives. The KeyLab focusses on the design and synthesis of novel additives, the preparation of easy to dose powders and formulations and efficient incorporation techniques.

Polymer Additives and Fillers - bpi-polymers.com
Polymers containing electrically conductive fillers show interesting electrical properties like semiconductors and metals without losing the processability of polymers. Typical applications are as antistatic (electrostatic dissipation) materials, electro-magnetic interference shielding materials, heaters and sensors.

Electrical properties of filled polymers and some examples ...
We investigated the effects of polymer/filler interactions on the glass transition temperatures T g of filler-filled polymer nanocomposites. Coarse-grained molecular dynamics simulations of crosslinked polymer networks filled with spherical nanoparticles (NPs) were performed with repulsive, non-attractive, and attractive potentials applied between the NPs and polymers.

Effects of polymer/filler interactions on glass transition ...
Polyolefin composites were prepared with CaCO 3 fillers of different specific surface area. The fillers were surface treated with stearic acid between 0 and 100% surface coverage. As an effect of the treatment, surface tension of the fillers and also polymer/filler interaction decreased.

Surface tension and mechanical properties in polyolefin ...
Electrically conductive composite systems based on polyvinyl chloride (PVC) and polymethyl methacrylate (PMMA) filled with metal powders of Al and Cu have been studied. The composite preparation conditions allow the formation of a random distribution of metallic particles in the polymer matrix. Dependence of the dielectric and conductivity properties of the PVC and PMMA/fillers was studied over a broad range of frequency and volume fraction of metal fillers.

Dielectric Properties of Polymer Composites Filled with ...
The orientation of the particles strongly affects composite stiffness and strength. In practice, often several factors simultaneously influence the properties of products prepared from particulate filled polymers. Separation of the effects of the influencing factors is difficult, although such knowledge would help to control composite properties.

Morphology and Properties of Particulate Filled Polymers ...
Fillers have been reported to raise, have no effect upon, or to lower the glass transition temperature T g of polymers. In those studies, comparisons have been made between filled and unfilled polymers having equal thermal histories. In the work report here, however, the thermal history (cooling rate) was also varied.

Effect of filler and cooling rate on the glass transition ...
Research Institute of Macromolecular Chemistry, Kalvodova 21, 60200 Brno, Czech Republic. ... modulus of filled polypropylene shows linear increase with talc concentration up to double the value of unfilled polymer. Yield stress and Charpy notch toughness decrease with increasing talc content below matrix level at the highest filler content ...

Mechanical properties of talc-filled polypropylene ...
Characterization of Filler-rubber Interaction, Filler Network Structure, and Their Effects on Viscoelasticity for Styrene-butadiene Rubber Filled with Different Fillers. Journal of Macromolecular Science, Part B 2013 , 52 (8) , 1128-1141.

Influence of Particle Size and Polymer−Filler Coupling on ...
The polymer units at the interface with the filler particles are arranged in densely packed and ordered shells analogous to those found near planar solid surfaces. The polymer chains, reduced in size compared to the unfilled melt, are constituted of sequences of surface segments, totally contained in the interface shell of a given particle, and of bridge segments, connecting different particles.

Monte Carlo Simulations of Polymer Melts Filled with Solid ...
We compare the rheological behavior of three classes of polymer nanocomposites (PNCs) to understand the role of particle shape and interactions on mechanical reinforcement. The first two correspond to favorably interacting composites formed by mixing poly(2-vinylpyridine) with either fumed silica nanoparticles (NPs) or colloidal spherical silica NPs.

Role of Filler Shape and Connectivity on the Viscoelastic ...
Tsagaropoulos and Eisenberg [Macromolecules 1995, 28, 396; Macromolecules 1995, 28, 6067] reported a second loss tangent (tan δ) peak in temperature-dependent viscoelastic data for various un-cross-linked polymers filled with nanometer-sized silica particles. This peak, occurring at temperatures as much as 100 °C above the primary tan δ peak (glass-to-rubber softening transition), was ...

Further Consideration of Viscoelastic Two Glass Transition ...
Polymer Science Series A 2016, 58 (6) , 916-924. DOI: 10.1134/S0965545X16060067. Yihu Song, Qiang Zheng. A Guide for Hydrodynamic Reinforcement Effect in Nanoparticle-filled Polymers. Critical Reviews in Solid State and Materials Sciences 2016, 41 (4) , 318-346. DOI: 10.1080/10408436.2015.1135415.

Study of the Mechanisms of Filler Reinforcement in ...
Abstract A theory has been developed which predicts the minimum permeability that can be expected for a polymer filled with platelike particles. Models are also developed for the permeability of liquids through filled polymers when the liquid adsorbs or collects at the filler-polymer interface.

Models for the Permeability of Filled Polymer Systems ...
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