Development of novel flame retardants for polyurethane foams.

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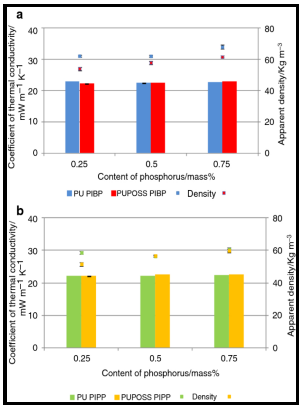

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Determination of Novel Brominated Flame Retardants in Flexible Polyurethane Foam by GC

On the other hand those kinds of retardants cause the development of very dense and toxic smokes 5 , 6. Int J Heat Mass Transf. Using DMF as solvent can completely dissolve SPDPC, and the reaction become homogeneous reaction between SPDPC and ethanediamine, in which the reaction time is shorten to 8 h from 17 h and the yield of PEPS increased from 73% to 87.

Halogen

To overcome the challenge of incorporating flame retardant FR additives during the foaming process without altering the foam properties, a plasma surface treatment was used for the first time in this work: a cold plasma induced graft-polymerization of phosphonate containing precursors diethylvinylphosphonate-DEVP with or without a crosslinking agent 1,4 butanedioldiacrylate was applied on open cell flexible polyurethane foams PUF. Flame-retardant and smoke-suppressant flexible polyurethane foams based on reactive phosphorus-containing polyol and expandable graphite. Parts per hundred of polyol by weight Measurements Structural Characterization of PEPS.

Preparation and properties of a novel flame retardant polyurethane quasi-prepolymer for toughening phenolic foam, Journal of Applied Polymer Science

Recycling of waste melamine formaldehyde foam as flame-retardant filler for polyurethane foam. The MPA inhibits the conversion of polysiloxane to cyclic siloxane, thereby enhancing thermal stability. Halogen-free flame-retardant flexible polyurethane foams FPUF were prepared successfully by using CMA as a flame retardant.

Flame retardant property of novel intumescent flame retardant rigid polyurethane foams.

The residue samples for SEM were obtained after combustion in their limiting oxygen concentration. Novel MoS2—DOPO Hybrid for Effective Enhancements on Flame Retardancy and Smoke Suppression of Flexible Polyurethane Foams.

Identification of flame retardants in polyurethane foam collected from baby products.

The rigid foams produced with the polyol composition of the present invention are useful in many applications including, for example, in pour-in-place panels which are used for commercial coolers, walk-in freezers, refrigerators, and the like. The FT-IR spectra results show that PEPS in the polyurethane matrix produces phosphoric and polyphosphoric acids during thermal degradation, which acts as the dehydration agents and accelerates the formation of the heat resistant carbonaceous char by carbonization 22.

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