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Photocuring of Acrylate Oligomers in the Presence of Vinyl Phosphonic Acids as a Flame Retarding Monomer and the Properties of the Cured Films

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Abstract: Photocuring of formulations containing polyurethane based acrylates and a flame retarding monomer (FR), namely vinyl phosphonic acid with an α -cleavage type photoinitiator; 2-hydroxy-2-methylphenyl propane-1-one were studied. The flame retardancy, and the physical and mechanical properties of the cured films were determined.

Key Words: Flame retardancy, U.V. curable polyurethane acrylate, vinyl phosphonic acid.



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