

1994-05-13 Vinylbenzyl Thymine Photopolymers

Vinylbenzyl thymine monomers

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Method of Imaging Using a Polymeric Photoresist Having Pendant Vinylbenzyl Thymine Groups

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Copolymers Having Pendant Functional Thymine Groups

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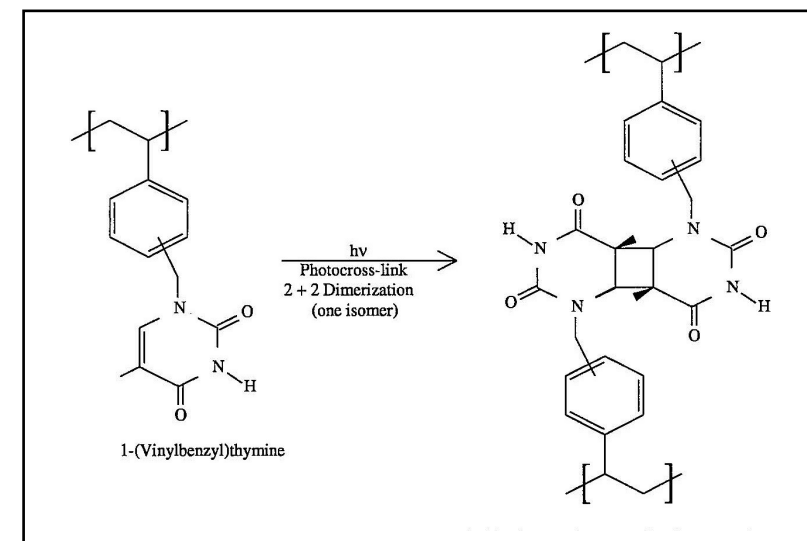
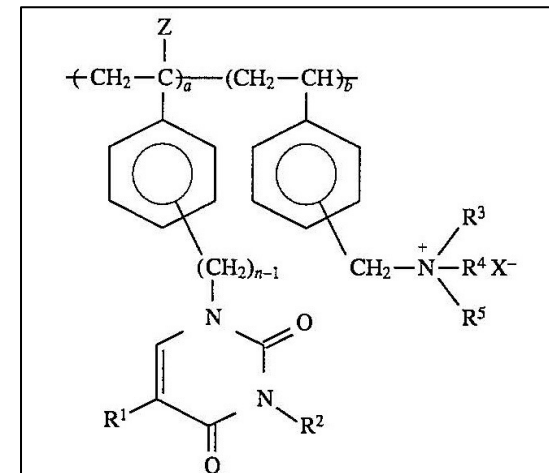
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Multi-functional vinylbenzyl and vinylphenyl pendant thymine (and uracil) groups are disclosed. The monomers can be used for the production of polymers useful in photoresist and other compositions as a function of the crosslinking reactivity of the pendant groups. Images in polymer are provided by exposure to actinic radiation (e.g., UV), containing such polymer and by solvent removal of non-exposed regions.



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1994-05-13 Vinylbenzyl Thymine Polymers, Continued

Copolymeric Mordants and Photographic Products and Processes Containing Same.

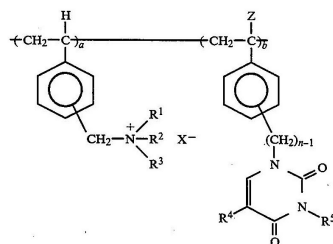
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Copolymeric mordant materials containing recurring units according to the following formula are disclosed:



In such copolymers, each of R₁, R₂ and R₃ can independently be alkyl; substituted-alkyl; cycloalkyl; aryl; aralkyl; alkaryl; or at least two of R₁, R₂ and R₃, together with the quaternary nitrogen atom to which they are bonded, can complete a saturated or unsaturated, substituted or unsubstituted nitrogen-containing heterocyclic ring; X is an anion; R₄ is hydrogen or alkyl (e.g. methyl). The pendent "b" group contain hydrogen-bonding sites for promotion of self-associated aggregation and ring unsaturation for photocyclization and control of physical properties (e.g., water insensitivity) of the image-receiving layer. The copolymeric mordant materials can be utilized as image-receiving layers in photographic products and processes of the diffusion transfer type. The mordants are especially adapted to the production of dye images exhibiting favorable maximum density (D_{max}) and rates of dye transfer properties.

