

PHOTOIMAGEABLE COMPOSITIONSAbstract of the Disclosure

A negative acting photoimageable composition comprises

5 A) between about 30 and about 70 wt%, based on total weight of A) plus B), of a organic binder polymers having sufficient acid functionality to render said photoimageable composition developable in alkaline aqueous solution,

10 A) comprising between about 3 and about 65 wt% relative to total of A) plus B) a binder polymer A') having a weight average molecular weight between about 5000 and about 40,000 and a T_g of between about 40 and about 100, and

5 to 67 wt% relative to total of A) plus B) a binder polymer A'') having a weight average molecular weight between about 41,000 and about 200,000 and a T_g of between about 40 and about 100,

15 B) between about 30 and about 60 wt%, based on total weight of A) plus B), of α,β -ethylenically unsaturated compounds, said component B) comprising

B') an isocyanate trimer having tri- α,β -ethylenically unsaturated functionality, said trimer B') being present at between about 2 to about 30 wt% based on total weight of A) plus B), and

20 B'') 0 to about 5 wt% based on total weight of A) plus B) of other α,β -ethylenically unsaturated compounds, at least about 50 mole percent of the α,β -ethylenically unsaturated functionality of B' and B'' being methacrylate functionality and

25 C) between about 0.5 and about 15 wt%, based on total weight of A) plus B) of an organic, radiation-sensitive free-radical generating system, said photoinitiator chemical system C) comprising between about .005 and about 3 wt% relative to total weight of A) plus B) of triphenylphosphine and between about .005 and about 2 wt% relative to total weight of A) plus B) of n-phenylglycine.