

**PHOTOIMAGEABLE COMPOSITIONS HAVING
IMPROVED CHEMICAL RESISTANCE AND STRIPPING ABILITY**

5

Abstract

10

A negative-acting photoimageable composition useful as a primary imaging resist in the manufacture of printed circuit boards comprises an acid-functional binder polymer, a photopolymerizable component, and a photoinitiator chemical system, in which the binder polymer has an anhydride functional backbone half-esterified with a meth(acrylate) functional hydroxy-terminated oligomer, wherein the meth(acrylate) functionality is separated from the half-ester linkage by at least two alkoxylate groups and at least one ring opened lactone group for improved stripping ability in strong alkaline aqueous stripping solutions, while maintaining good chemical resistance to other processing chemicals, such as alkaline developing solutions, acid etching solutions, and acid plating baths.

15