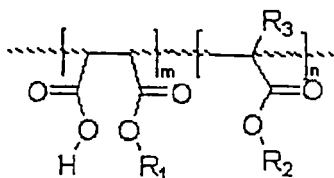


ABSTRACT

COPOLYMER AND COMPOSITION FOR ORGANIC ANTIREFLECTIVE LAYER

The present invention provides an organic anti-reflection coating composition comprising a copolymer represented by the following Formula 1, a light absorbent, a thermal acid generating agent, and a curing agent:

[Formula 1]



wherein R₁, R₂ and R₃ are each independent to each; R₁ represents hydrogen or an alkyl group having 1 to 10 carbon atoms; R₂ represents hydrogen, an alkyl group having 1 to 10 carbon atoms or an arylalkyl group having 1 to 20 carbon atoms; R₃ is hydrogen or a methyl group; m and n are repeating units in the main chain, while m+n=1, and they have values of 0.05 < m/(m+n) < 0.95 and 0.05 < n/(m+n) < 0.95. The anti-reflection coating using the polymer of the invention has excellent adhesiveness and storage stability, and a very high dry etching rate, and exhibits excellent resolution in both C/H patterns and L/S patterns.

FIG. 1



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