

ABSTRACT

[Problem] Provided is a photocurable electroconductive ink composition for screen printing which can provide printability, printing precision and adhesiveness on a substrate good enough for screen printing, and can show stable electroconductive properties.

[Solution] A photocurable electroconductive ink composition for screen printing, comprising: (A) an electroconductive filler, (B) a photopolymerizable resin precursor consisting of an oligomer of urethane acrylate, monofunctional acrylate and polyfunctional acrylate, (C) an alkyd resin, (D) two or more photopolymerization initiators and (E) a polymer dispersant, in which the content of the electroconductive filler (A) is 70 to 90 mass% relative to the total mass of the photocurable electroconductive ink composition, and more than 50 mass% of the electroconductive filler is silver powder in a scale-like, foil-like or flake-like form having a particle diameter at 50% particle size distribution of 0.3 to 3.0 μm , and the total content of the photopolymerizable resin precursor (B) is 10 to 24 mass% relative to the total mass of the photocurable electroconductive ink composition, and the content of the oligomer of urethane acrylate is 5 mass% or less relative to the total mass of the photocurable electroconductive ink composition, and the content of the alkyd resin (C) is 1 to 10 mass% relative to the total mass of the photocurable electroconductive ink composition.

[Selected Figure] None