

ABSTRACT

A red phosphorus base flame retardant for an epoxy resin, which can suppress oxo acid of phosphorus from eluting from red phosphorus and can impart remarkable flame retardancy to an epoxy resin for a semiconductor sealing material. The red phosphorus base flame retardant for an epoxy resin comprises coated red phosphorus which has the surface of red phosphorus particles coated with a thermosetting resin containing an anhydrous zinc compound or the surface of red phosphorus particles coated with an inorganic substance and further coated with a thermosetting resin containing an anhydrous zinc compound. The coated red phosphorus has properties that a slurry having the coated red phosphorus dispersed in 10% by weight into water at 20°C has an electric conductivity of $30\mu\text{s/cm}$ or below, the slurry having been left standing at 80°C for 20 hours has an electric conductivity of $150\mu\text{s/cm}$ or below, and when 80 ml of water is added to 8g of the coated red phosphorus and heated at 80°C for 20 hours, a concentration of PO_4 ions eluted is 10 ppm or below.



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