Evaluation of the Insulation Properties of Epoxy Resin-based Composites

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This paper shows insulation properties of epoxy resin-based materials, focusing on dielectric strength, resistivity, and partial discharge. Effects of filler dispersion on breakdown behavior and performance are investigated. ・・・○○.

Keywords：epoxy resin, composite, insulation propeerties

1. Introduction

Epoxy resins are widely used as electrical insulating materials, and □□□□□□□□□□[1]-[3].□□□□□□□□□□□□□□□□□□□□□□□□□□.□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□.□□□□□□□□□□□,□□□□□□□□□□□□□□□□□□□□□□□□□□□□.

2. Method

〈2･1〉Sample Preparation　After dispersing inorganic fillers in the epoxy resin,□□[4].

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〈2･2〉Evaluation Method　The prepared were tested using a sphere–plane electrode system, and the voltage leading to dielectric breakdown was measured[5][6]. The tests were conducted in insulating oil.

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3. Results and Discussion

The dielectric breakdown strength of the samples is shown in Fig. 1.□□□□□□□□□□□□□□□□.□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□.□□

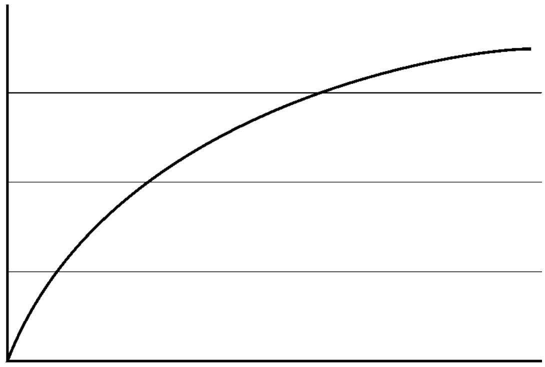

Fig.1　Title.

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4. Conclusions

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