

عنوان مقاله:

Manufacturing of Electrical Insulator from Composite Material

محل انتشار:

اولین کنفرانس بین المللی مکانیک مواد و تجهیزات پیشرفته (سال: 1396)

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خلاصه مقاله:

The huge development in the industrial side was accompanying with consumption of materials in the industry. On the other side, there is a large amount of waste accompanying to this development. Therefore, it is necessary to recycle these wastes and reuse it to serve humanity and preserve the environment. Due to this, we start studying to recycle waste into benefit uses. In this research we investigated several materials to manufacture a composite isolation material. This material can isolate electricity and heat, which produce from waste material. Moreover, we demonstrated the efficiency of these composite materials on the basis of isolation and cost. In this research we use three types of waste material PVC, cardboard and fiberglass. These waste materials produced our new composite isolation material. Our samples were manufactured with dimensions of 5*5 cm and 1 cm thickness. Different amount of these materials was investigated to produce better isolation. Our study for the composite materials illustrated that that sample 3 was the better electrical insulation than other samples that we used in our experiment. Moreover, sample 3 was the better one between our samples in heat isolation.

کلمات کلیدی:

electrical isolation, heat isolation, manufacture, composite materials

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