

나노 컴퍼지트 에폭시 절연재료의 체적 고유저항 특성

최현민, 김정식, 김원종, 박영하, 김귀열*, 신종열**, 이종용, 홍진웅
광운대학교, 한양대학교*, 삼육대학교**

Volume Resistivity Characteristics of Epoxy Resin using Nanocomposites

Hyun-Min Choi, Jung-sik Kim, Won-jong Kim, Young-Ha Park, *Gwi-Yeol Kim, **Jong-Yeol Shin, Jong-Yong Lee,
Jin-Woong Hong
Kwangwoon Univ, *Hanyang Univ, **Sahmyook Univ.

Abstract : In the study the volume resistivity Characteristics of epoxy resin using nanocomposites, nano-comosites are made from insulating material epoxy resin using for power transformer equipment and molding several devices as changing amount of addition of diameter 12 [nm] SiO₂, we measured volume resistivity of nano-composites by High Resistance Meter(4329A). As the result of measurement, we have seen the epoxy resin using 1.6 [wt%] nanocomposites was the highest measured at the volume resistivity, and using 0.4 [wt%] nanocomposites was highest stabilized than others according to variable temperature properties.

Key Words : Nano-compsites, Volume Resistivity, Epoxy, Insulating material epoxy resin, SiO₂