Anongpun Man-im 2010: A Study of Tracking on Insulating Surface.
Master of Engineering (Electrical Engineering), Major Field: Electrical Engineering, Department of Electrical Engineering. Thesis Advisor: Mr. Winai Plueksawan, Dr. Ing. 96 pages.

This Paper presents the result from partial discharge behavior on insulating surface, which deteriorate surface of materials and causes insulating surface tracking.

This study was referred to the ASTM : D 2303 (reapproved 2004) standard. By Inclined-Plane Tracking (IPT) Test with time-to-track method, which tested insulating material placed on the plate inclined at 45° from the horizontal. The specimen was connected to electrical circuit and contaminant solution was dropped on the specimen surface and then voltage was applied until surface tracking occurred on the specimen surface.

The results were recorded to compare the tracking strength of each material and estimate the life of the tested materials for using in suitable electrical equipments.

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