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Charges on the Carnuba Wax Electret

Tsuneo YOKOI*

An electret is made of Carnuba wax. Its surface charge is due to the difference between two charges;— one is the homocharge, which is trapped on the surface, and the other is the heterocharge, which is due to the orientation of dipoles in the material. To analyse two charges we took the process to make the electret in the vacuum. The homocharge is delivered from the electrode to the dielectric surface depending on the corona discharge. However the charge may not be delivered on the surface if the air gap has much strength. So we made the electret in the vacuum. We measured the surface charge by the induced electrode method. The characteristics of surface charge and discharge current were measured referring to the various field strength and temperature.

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