## **Volume Resistivity Measurement of Plastic Materials**

Measure the volume resistivity of plastic materials.

## Highlights

Volume resistivity of plastic materials can be measured using the SM-8220 Ultra Megohm Meter (SM-8213, SM-8215, and SM-8216) and the SME-8310 Plate Sample Electrode.

Volume resistivity can be easily calculated from the resistance readings and the sample thickness as the shape of the plate sample electrode conforms with the "JIS K-6911-1955 General test method of heat-hardening plastic materials."

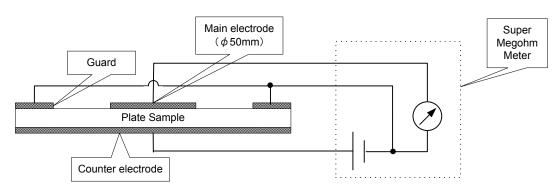
X Volume resistivity is equal to the volume resistivity between two electrodes that form two opposing surfaces of a cube with sides of 1 cm each.



SME-8310 PLATE SAMPLE ELECTRODE

SM-8220 SUPER MEGOHM METER

ΗΙΟΚΙ



- Set the selector switch of the SME-8310 Plate Sample Electrode to volume resistance measurement.
- Set the plate sample in the electrode.
- Connect the connection cable and safety interlock connection cable to the main body.
- Measure surface resistance using the one-minute value method (read the resistance value one minute after voltage is applied) considering the dielectric absorption effect.
- Volume resistivity (Ω cm) can be calculated using the formula: Volume resistivity = SME-8310 electrode constant (19.6) / Plate sample thickness (cm) x Measured value.
- Select the best megohmmeter model depending on the resistance value and applied voltage of the test sample.
- For details on the electrode shape and test sample shape, refer to JIS K-6911-1995.

## Products used

<ul> <li>SUPER MEGOHM METER</li> </ul>	SM-8220
PLATE SAMPLE ELECTRODE	SME-8310