Transmittance of plate equipped with transparent conductive film

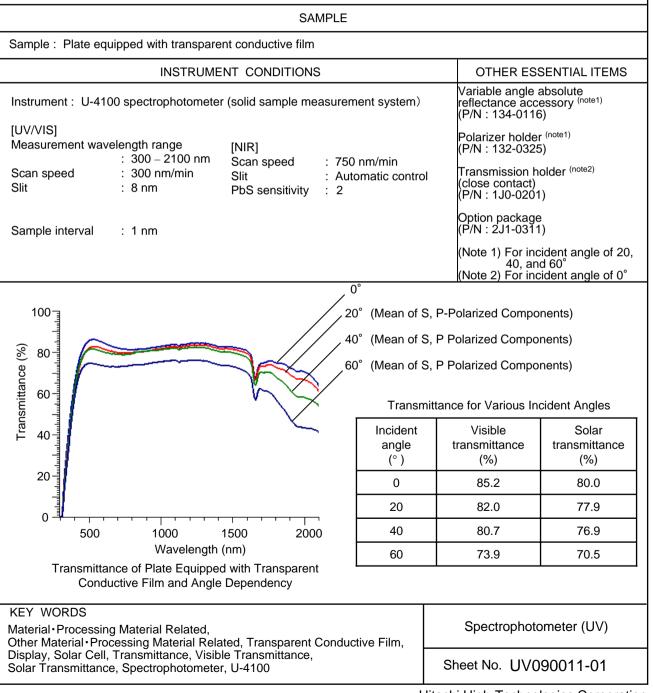
INTRODUCTION

Transparent conductive films are thin films having both visible transmittance and electric conductivity and used for flat panel displays such as LCD, touch panels, solar cells, etc. The transmission characteristics of the transparent conductive film used for solar cells need to be evaluated for incident angles as the position of the sun changes.

The transmittances of a plate equipped with the transparent conductive film for various incident angles were measured by U-4100 spectrophotometer and visible transmittances and solar transmittances were calculated by using an option package referring to JISR3106 (1998).

As a result, it was found that the visible transmittance and solar transmittance decrease as the incident angle increases.

By using U-4100 spectrophotometer, variable angle absolute reflectance accessory, and transmission holder (close contact), the transmission characteristics of a plate equipped with transparent conductive film can be evaluated.



Reflectance of plate equipped with transparent conductive film

INTRODUCTION

Transparent conductive films are thin films having both visible transmittance and electric conductivity and used for flat panel displays such as LCD, touch panels, solar cells, etc. The reflection characteristics of the transparent conductive film used for solar cells need to be evaluated for incident angles as the position of the sun changes.

The reflectances of a plate equipped with the transparent conductive film for various incident angles were measured by U-4100 spectrophotometer and visible reflectances and solar reflectances were calculated by using an option package referring to JISR3106 (1998).

As a result, it was found that the visible reflectance and solar refectance increase as the incident angle increases. By using U-4100 spectrophotometer, variable angle absolute reflectance accessory, and 5° specular reflectance accessory, the reflection characteristics of a plate equipped with transparent conductive film can be evaluated.

