

Measurement of "cooler-feeling" Business Suits

INTRODUCTION

Currently, people across the world are working on the projects based on energy-saving concept and the technologies to improve the fuel efficiency of automobiles or to reduce the power consumption for the lighting equipment and household electrical appliances have been developed. In addition, our clothes are equipped with the functionality.

A "cooler-feeling" business suit material which suppresses the temperature increase by reflecting infrared ray and a regular business suit material were analyzed by spectrophotometer.

As a result of the analysis, the reflectance of the "cooler-feeling" business suit material in the near-infrared region was found to be about 3% higher than that of the regular business suit material.

The results obtained by spectrophotometer can be used for the product development and quality control.

SAMPLE

Sample : Cooler -feeling business suits

INSTRUMENT CONDITIONS

Instrument : U-4100 spectrophotometer (solid sample measurement system)

Measurement wavelength range : 200 -2600 nm

Sampling interval : 1 nm

[UV/VIS]

Scan speed : 300 nm/min

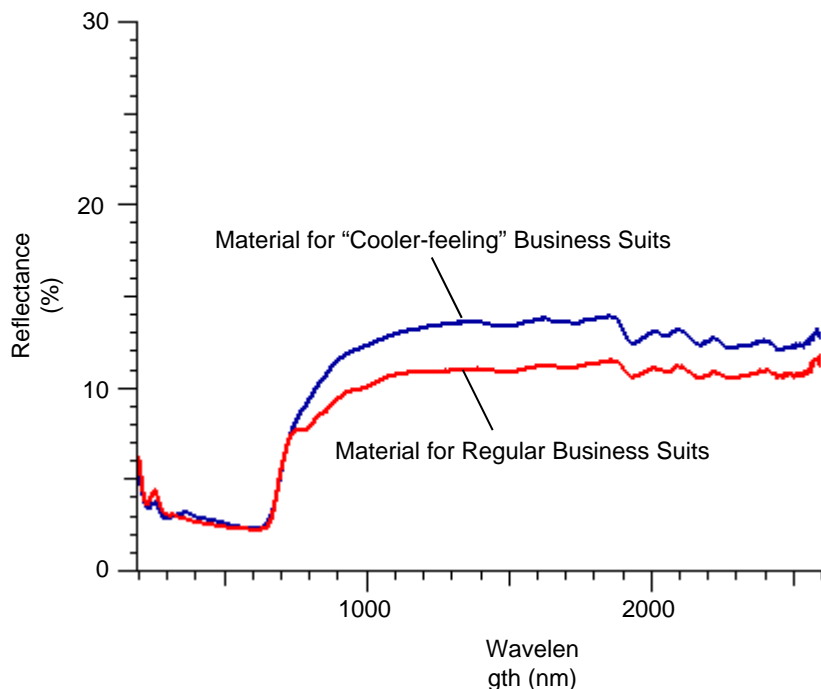
Slit : 8 nm

[NIR]

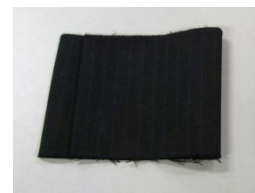
Scan speed : 750 nm/min

Slit : Automatic control

PbS sensitivity : 2



"Cooler-feeling" Business Suit



Regular Business Suit

KEY WORDS

Material/Processing Material Related,
Other Material/Processing Material Related,
"Cooler-feeling" Business Suits, Reflectance Spectrum, Spectrophotometer,
U-4100

Spectrophotometer (UV)

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